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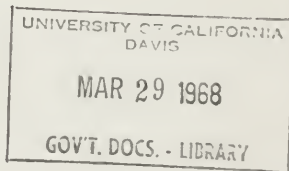
Department of Water Resources

BULLETIN No. 130-66

HYDROLOGIC DATA: 1966

Volume IV: SAN JOAQUIN VALLEY

DECEMBER 1967



RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

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BULLETIN No. 130
 HYDROLOGIC DATA
 AREAL COVERAGE OF VOLUMES

Each Volume Contains

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality

This Volume

This Area Reported in
 Volume III & V

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-66 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California

October 16, 1967

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	

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1	Ground Water Level Changes, Unconfined and Semiconfined Aquifers, and Selected Observation Wells
2	Ground Water Level Changes, Confined and Semiconfined Aquifers, and Cooperative Program Areas
3	Map of 18 Historic Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, 1966
4	Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1966

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

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Reviewed and Coordinated by Statewide Planning Office,
Data Coordination Branch

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- U. S. Weather Bureau
- U. S. Bureau of Reclamation
- U. S. Army Corps of Engineers
- U. S. Geological Survey
- State Department of Public Health
- City and County of San Francisco
- City of Modesto
- Kern County Water Agency
- Kern County Land Company
- Buena Vista Water Storage District
- Modesto Irrigation District
- Turlock Irrigation District
- Oakdale Irrigation District
- Merced Irrigation District
- Fresno Irrigation District
- Kings River Water Association
- Central California Irrigation District
- Tule River Association
- Fresno County Health Department
- Kern County Health Department
- Tulare County Health Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1965-66 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1966; profile of ground water levels; cooperative study areas; ground water level changes; and well locations.

APPENDIX A
CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1965 to September 30, 1966. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 360 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

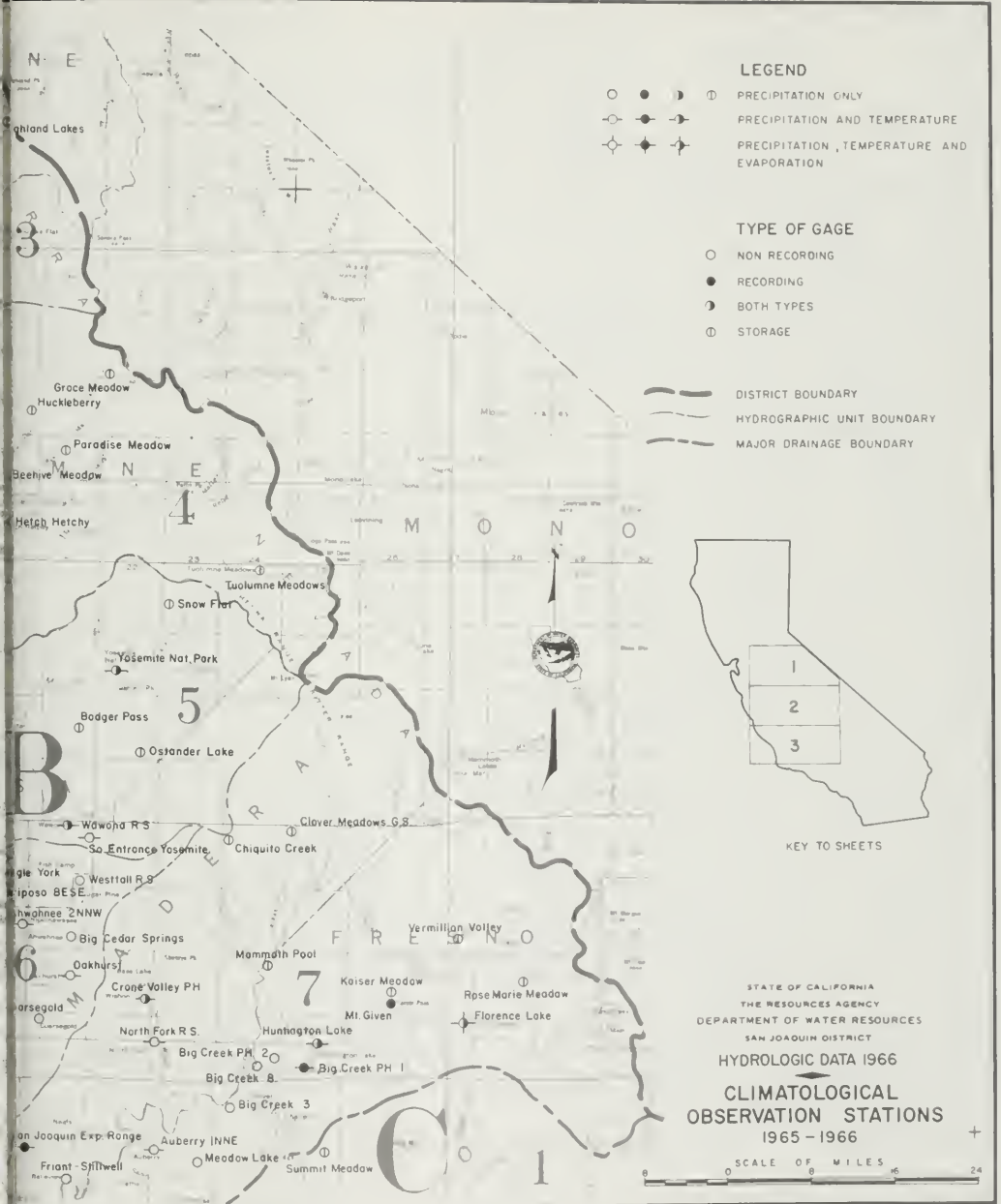
SAN JOAQUIN RIVER BASIN

- B0 - San Joaquin Valley Floor
- B3 - Stanislaus River
- B4 - Tuolumne River
- B5 - Merced River
- B6 - Fresno-Chowchilla Rivers
- B7 - San Joaquin River
- B8 - San Joaquin Valley on West Side

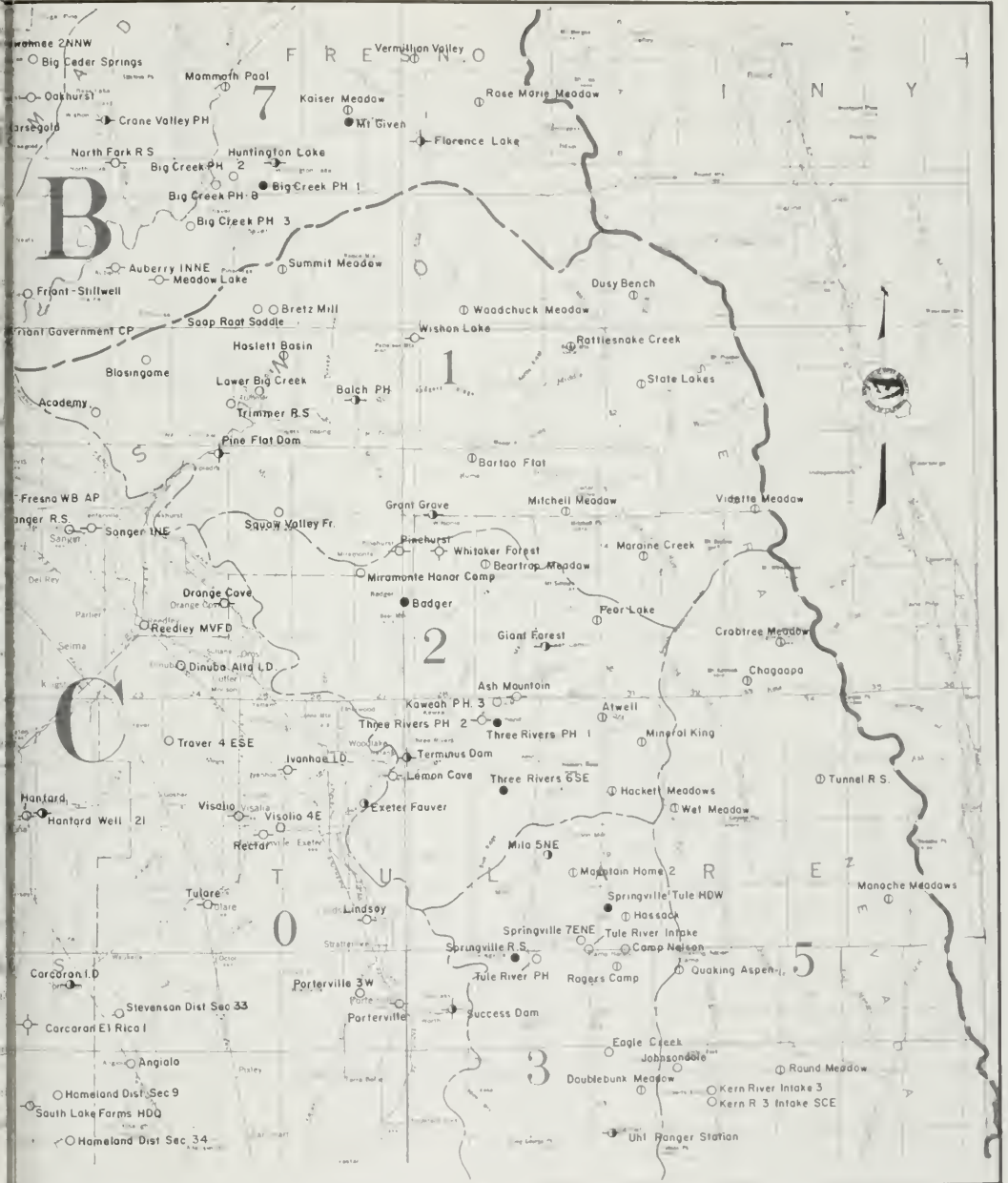
HYDROGRAPHIC AREA C

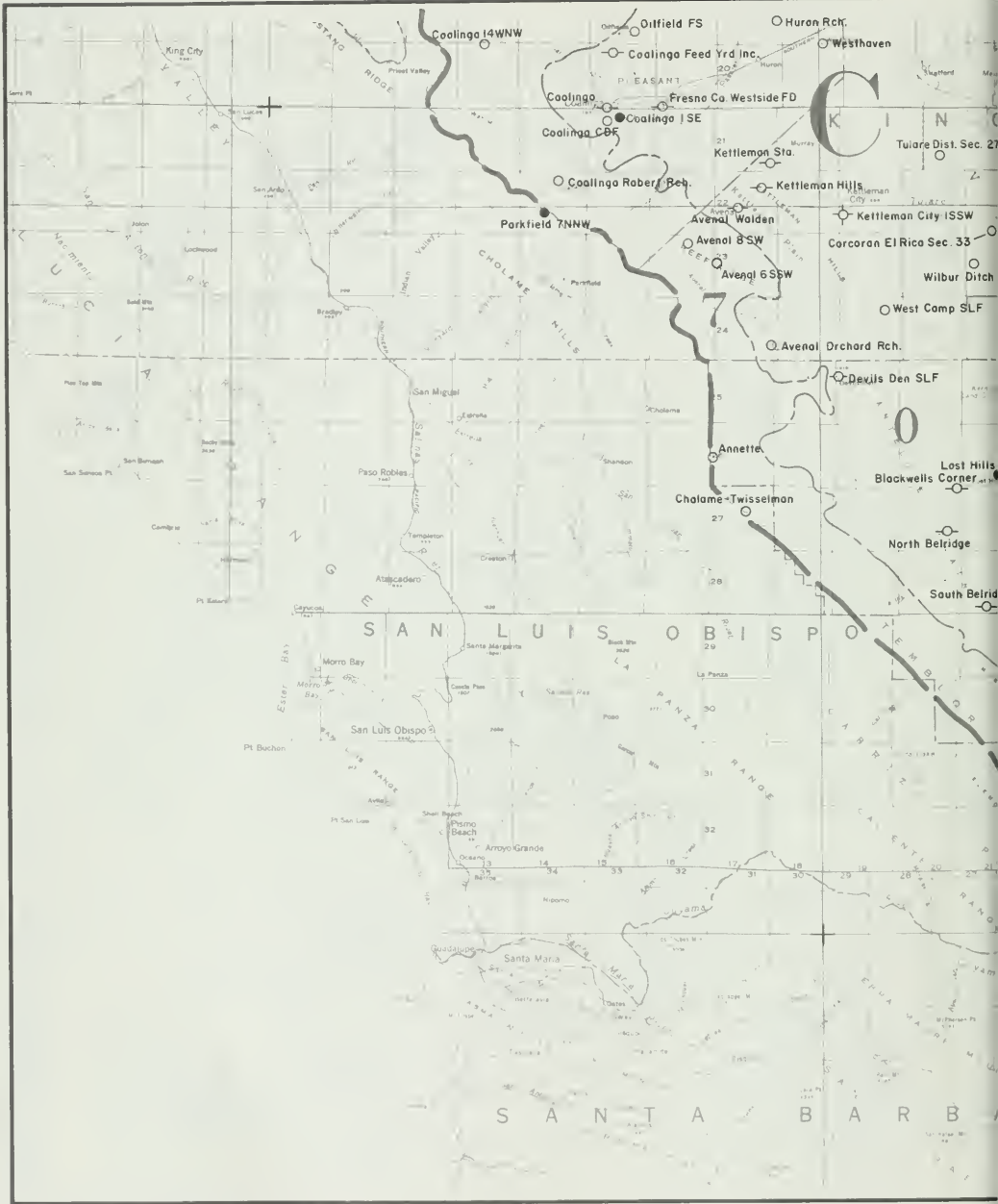
TULARE LAKE DRAINAGE BASIN

- C0 - Tulare Lake Valley Floor
- C1 - Kings River
- C2 - Kaweah River
- C3 - Tule River
- C4 - Greenhorn Mountains
- C5 - Kern River
- C6 - Tehachapi Mountains
- C7 - Tulare Lake Basin on West Side









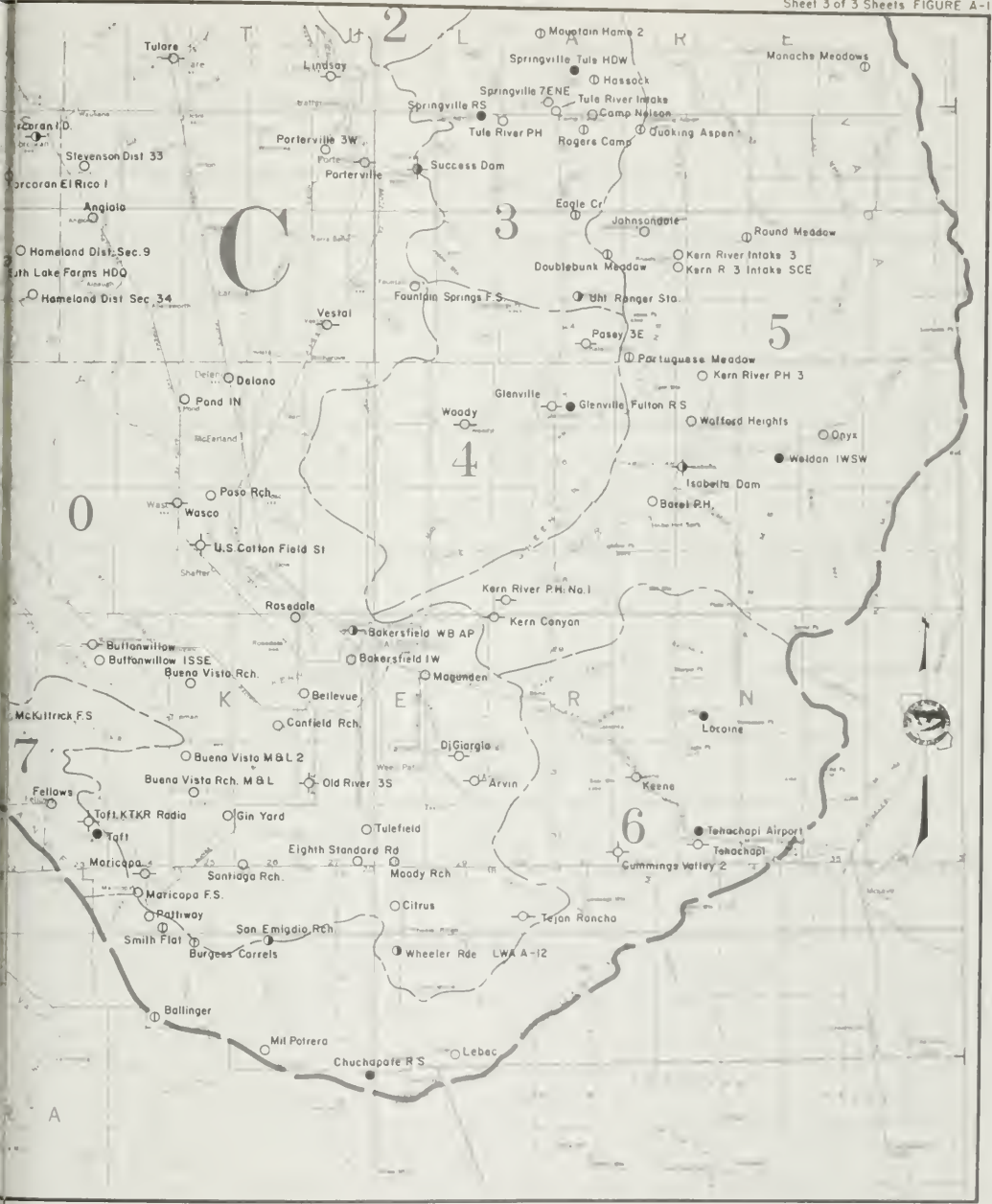




TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table are as follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

- M - Mount Diablo Base and Meridian
- S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 P. G. and E. Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Company
 - 012 Miller and Lux, Inc.
 - 013 Mr. Roger C. Rice
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water District
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Division of Beaches and Parks
 - 805 State Department of Fish and Game
 - 806 Department of Water Resources, Land & Water Use
 - 808 Division of Forestry
 - 809 Division of Highways
 - 812 Regional Subsidence Exploration, Department of Water Resources

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	U. S. Weather Bureau (Climate Data)
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers, Sacramento
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	State Climatologist & Unpublished (U.S.W.B.)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the U. S. Weather Bureau stations are the same as those used by the Weather Bureau. The U. S. Weather Bureau station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
Stanislaus	50
Tulare	54
Tuolumne	55

TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	Ad. Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code	
Number	Name														
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M 36 52	119 32	25	100					
B6 0049	AHWAHNEE 2 NNW	2640	SEC 24	T06S	R20E	M	M 37 23	122 119 44	17	9 7	40049	1959	20		
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M 35 59	25 119 28	42	900		1899	74		
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M 35 38	48 120 10	12	000		1952	15		
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	M 35 12	00 118 49	00	000		1936	15		
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M 36 29	30 118 49	35	900		1925	54		
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	M 37 21	120 37	000			1961	24		
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	M	M 36 28	00 118 40	00	900		1948	34		
B7 0379	AUBERRY 1 NNE	2010	SEC 06	T10S	R23E	H	M 37 05	30 119 29	50	900		1917	18		
C0 0396-02	AVENAL WALDEN	810	SEC 21	T22S	R17E	A	M 36 00	21 120 07	50	000		1977	16		
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M 35 48	23 120 05	18	000		1919	16		
C7 0399-01	AVENAL E SW	1424	SEC 03	T23S	R16E	G	M 35 57	33 120 13	25	000		1957	16		
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M 35 55	30 120 10	05	000		1953	15		
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M 36 37	53 119 00	46	900		1947	54		
B5 0425	BADGER PASS	7300	SEC 22	T03S	R21E	M	M 37 40	00 119 43	0	900		1941	22		
B5 0430	BAGBY	825	SEC 06	T04S	R17E	J	M 37 36	48 120 07	48	000		1958	1966	22	
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M 35 22	41 119 02	17	900		1913	15		
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M 35 25	38 119 02	34	900		1933	15		
C1 0449	BALCH POWER HOUSE	1720	SEC 12	T12S	R26E	B	M 36 54	33 119 05	15	900		1921	10		
C6 0466	BALLINGER	4240	SEC 07	T09N	R23W	B	S 34 53	03 119 22	26	000003		1961	15		
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	M 36 49	118 53	900			1961	10		
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	M 37 34	120 07	903			1960	22		
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	M 38 12	12 120 04	30	044		1959	55		
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	M 36 41	00 118 52	00	900		1959	54		
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	M 38 00	00 119 47	00	900		1947	55		
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M 35 20	11 119 05	27	001		1961	15		
B6 0753-80	BIG CEDAR SPRINGS	3280	SEC 26	T06S	R21E	A	M 37 23	14 119 37	56	000		1964	20		
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M 37 12	15 119 14	20	900		1915	10		
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M 37 11	59 119 18	10	004		1913	10		
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M 37 08	54 119 23	00	044		1922	10		
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M 37 12	00 119 20	20	004		1921	10		
C0 0875	BLACKWELLS CORNER	644	SEC 01	T27S	R20E	A	M 35 36	53 119 52	02	900	040875	1944	13	15	
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	M 36 57	37 119 26	45	808		1961	18		
C5 0981	BOREL PH	2280	SEC 10	T27S	R32E	M	M 35 35	00 118 31	00	000		1905	15		
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M 37 02	18 119 14	24	905		1967	10		
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M 35 21	00 119 19	00	001		1944	15		
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M 35 11	42 119 11	43	0		1955	15		
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M 35 14	25 119 18	23	0		1962	15		
C6 1199-01	BURGESS CORALS	1600	SEC 02	T10N	R23W	S	S 34 58	28 119 18	38	000001		1962	17		
C0 1244	BUTTONWILLOW	268	SEC 14	T29S	R23E	K	M 35 24	00 119 28	00	900		1947	11		
C0 1244-05	BUTTONWILLOW 1 SSE	270	SEC 24	T29S	R23E	M	M 35 23	119 26	806			1965	1966	15	
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M 38 11	50 121 57	900			1944	05		
C3 1425	CAMP NELSON	4825	SEC 33	T20S	R31E	K	M 36 08	24 118 36	54	000		1959	54		
C0 1479	CANFIELD RANCH	334	SEC 26	T30S	R26E	N	M 35 16	58 119 09	41	001		1922	13		
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M 36 28	35 120 23	20	900		1958	19		
C0 1557	CARTHURS 4 E	265	SEC 14	T16S	R20E	B	M 36 32	48 119 45	30	000		1967	15		
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M 37 22	43 12 34	20 9 2			1951	24		
B8 1583	CASTLE ROCK RAD LAB	625	SEC 34	T03S	R04E	E	M 37 38	00 121 32	00	000		1956	39		
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 24	T06S	R17E	H	M 37 23	56 120 03	08	900		1940	22		
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M 37 28	33 120 06	33	000		1957	22		
B6 1590	CATHEYS VALLEY SAWYER	1275	SEC 11	T06S	R17E	C	M 37 25	53 120 05	40	000		1957	22		
B6 1591	CATHEYS VAL STONHOUSE	1210	SEC 14	T06S	R17E	M	M 37 24	30 120 05	60	000		1951	22		
C5 1647	CHAGOOPA	10390		T16S	R33E	M	M 36 31	118 27	901			1964	24		
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M 37 58	00 119 55	00	900		1955	22		
B7 1737	CHICUITA CREEK	7290	SEC 07	T05S	R24E	N	M 37 30	20 119 23	21			1961	29		
C7 1743-02	CHOLAME TWISSELLMAN	1675	SEC 15	T27S	R17E	R	M 35 35	00 124 77	50	000		1914	6		
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	S 34 48	00 119 17	37	900		1941	8		
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S 35 02	18 116 88	21	001		1963	15		
B7 1844	CLOVER MEADOWS GS	7002	SEC 06	T5S	R25E	M	M 37 32	119 17	908			1946	25		
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M 36 09	00 118 21	90 900			1962	17		
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M 36 02	18 12 26	4	000		1913	1		
C0 1867	COALINGA 1 SE	663	SEC 04	T31S	R15E	J	M 36 07	39 12 27	38 900			1911	1		
C7 1869	COALINGA 14 NNW	1640	SEC 33	T19S	R13E	M	M 36 14	88 12 34	9 900			1949	10		
C0 1870-80	COALINGA CDF	200	SEC 05	T21S	R15E	Q	M 36 08	13 12 22	37 900			1941	11		
C0 1871-80	COALINGA FEED YRDS 1 N	1000	SEC 04	T20S	R15E	D	M 36 13	23 123 21	12 8 6			1944	10		
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	E	M 37 16	00 118 42	9 9 7	0417		1912	20		
C0 1895	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M 36 42	27 123 25	25 900			1944	1		
B3 2003	COPPEROPOLIS	1000	SEC 34	T12N	R12E	K	M 37 59	00 121 38	98 903			1974	11		
C0 2012	CORCORAN TRIG DIST	200	SEC 12	T21S	R15E	Q	M 36 05	53 119 34	51 900			1941	16		
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	J	M 36 02	36 119 3	41 9 2			1988	16		

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q M	35	57	49	119	42	14	002		1951			16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A M	37	43	25	120	12	12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36	34	00	118	21	00	900		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	37	17	26	119	31	35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G M	35	07		118	35	806		1961			15	
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E M	37	07	18	119	59	00	000		1946			20
C0 2346	DELANO	323	SEC 11	T25S	R25E	A M	35	46	23	119	14	37	900		1876			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q M	37	25	24	121	22	42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	37	07	00	120	44	00	000		1949		01	24
B0 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	37	34		120	47	900		1964			50	
B0 2389-20	DENAIR CHANCE	165	SEC 20	T05S	R12E	E M	37	29	18	120	40	47	000		1965			24
B0 2389	DENAIR DAVISON RCH	250	SEC 12	T05S	R12E	D M	37	30	55	120	36	40	000		1965			24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	35	45	55	119	58	22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B M	35	15	08	118	51	00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D M	36	32	32	119	23	30	000		1944			54
C7 2464	DOMENGINO RCH	1000	SEC 29	T18S	R15E	A M	36	20	24	120	21	30	000		1959			10
C7 2464-01	DOMENGINO SPRING	1700	SEC 25	T18S	R14E	K M	36	19	53	120	24	04	000		1958			10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E M	37	43	00	120	24	18	904		1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	35	57	00	118	36	00	900		1965			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D M	37	45	14	120	06	30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E	M	37	06		118	35	901		1964			10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	35	59		118	39	903		1964			54	
B4 2609	EARLY INTAKE PH	439	SEC 11	T01S	R18E	C M	37	52	30	119	4	45	001		1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	35	05	05	119	01	45	001		1963			15
B0 2820	EL SOLYO RCH	50	SEC 08	T04S	R07E	C M	37	36	30	121	13	35	000		1963			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L M	37	47	20	121	58	15	000		1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	G M	37	35	12	120	16	05	900		1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D M	36	21	28	119	04	45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N M	37	19	04	120	20	04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C M	35	10	44	119	32	39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R M	36	51	04	120	37	03	000		1934			10
B0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	36	18	48	120	09	22	900		1942			10
C0 3084	FIVE POINTS DIENER	1360	SEC 10	T18S	R17E	R M	36	22	20	120	06	12	000		1963			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N M	37	16	27	118	58	27	900		1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q M	35	53	31	118	55	808		1965			54	
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J M	36	48	10	119	43	02	900		1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	400	SEC 31	T20S	R16E	Q M	36	08	27	120	16	22	806		1963			10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B M	37	03	07	119	38	48	000		1965			20
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A M	36	59	00	119	43	00	900		1896			10
B7 3262	FRIANT URRUTIA	500	SEC 34	T10S	R20E	P M	37	00	42	119	45	38	000		1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E M	36	34	40	115	46	01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R M	35	09	12	119	14	10	002		1960			15
C4 2463	GLENNVILLE	3140	SEC 25	T25S	R30E	F M	35	43	28	118	42	07	900		1951			15
C4 2465	GLENNVILLE FULTON RS	3500	SEC 29	T25S	R31E	H M	35	44	00	118	40	00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	N M	38	09	00	119	36	00	900		1947			55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N M	36	44	29	118	57	40	000		1924			54
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F M	37	45	55	120	07	40	000		1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E M	37	50	00	120	14	00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L M	37	49	00	120	06	00	900	PN065	1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F M	37	13	26	121	02	37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B M	37	12	00	121	03	00	000		1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B M	37	15	28	120	19	53	000		1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R M	37	10	25	121	01	54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P M	36	19	43	119	39	55	900		1899			16
C0 3749	HANFORD WELL #21	240	SEC 26	T18S	R21E	Q M	36	20		119	40	000		1964			16	
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K M	36	58	18	119	12	54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G M	37	56	42	119	46	54	900		1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J M	37	26	00	119	56	24	000		1949			22
B0 3981	HILMAR	90	SEC 14	T06S	R10E	M M	37	24	34	120	50	54	000		1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	36	22	00	118	39	00	900		1959			54
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A M	35	56	53	119	35	30	002		1952			16
C0 4061-03	HOMELAND DIST SEC 34	196	SEC 34	T23S	R22E	R M	35	53	43	119	34	24	002		1951			16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	G M	37	29	40	120	08	55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H M	37	28	10	120	14	00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G M	37	30	10	120	14	08	901		1960			22
C3 4120	HOSSACK	7100	SEC 16	T20S	R31E	M	36	11	00	118	37	00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	38	06	00	119	45	00	900		1948			55
B3 4170	HUNTERS CAW	3220	SEC 18	T04N	R31E	X M	38	12	00	120	21	36	900		1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R M	37	13	45	119	13	900		1915			10	
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	36	15	41	120	06	05	000		1951			10

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude		Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code	
Number	Name						0	1	2	1	2							
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	1900		1918		35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	0000		1952		22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	F	M	35	38	46	118	28	45	903		1949		15
CO 4312	IVANHOE I D	370	SEC 36	T17S	R25E	R	M	36	24	15	119	12	21	0000		1954		54
B5 4369	JEANSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50	905		1958		22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954		54
B7 4442	KATZER MEADOWS	9110	SEC 26	T07S	R26E	M	M	37	18	00	119	06	00	900		1946		10
C2 4452	KAWAIAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36	29	12	118	50	06	004		1913		54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35	13	28	118	33	55	0004463		1948		15
B8 4508	KERLINGER	172	SEC 16	T03S	R05E	E	M	37	40	35	121	25	59	900		1947		39
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M	35	26	27	118	47	45	003		1916		15
C5 4518	KERN RIVER INTAKE 3	3650	SEC 12	T22S	R32E	F	M	36	56	40	118	28	37	900		1952		54
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M	35	56	43	118	28	33	004		1921		54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M	35	27	37	118	46	48	900		1904		15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M	35	46	35	118	26	08	900		1946		15
CO 4534	KETTLEMAN CITY 1 SSW	310	SEC 19	T22S	R39E	N	M	35	59	45	119	57	55	000		1930	03	16
CO 4535	KETTLEMAN HILLS	1255	SEC 11	T22E	R17E	F	M	36	01	50	120	06	15	000		1931		16
CO 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M	36	04	28	120	05	08	900		1933		16
BO 4590	KNIGHTS FERRY 2 ESE	315	SEC 27	T01S	R12E	M	M	37	47	54	120	38	42	900		1905		50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38	28	42	120	00	48	900		1948		02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37	58	00	119	53	00	900		1909		55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	F	S	34	49	58	118	51	51	900		1940		15
BO 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37	13	50	120	14	50	900		1899		24
BO 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37	18	39	120	15	05	000		1946		24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36	23	00	119	01	31	900		1899		54
CO 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36	11	24	119	04	20	900		1913		54
BO 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M	37	23	05	120	43	15	000		1948	07	24
BO 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M	37	22	29	120	47	40	000		1952		24
B8 5074	LONE TREE CANYON	420	SEC 02	T04S	R05E	R	M	37	36	40	121	22	49	900		1933		39
C6 5098	LORRAINE	2720	SEC 21	T30S	R33E	R	M	35	18	05	118	25	54	900		1941		15
BO 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M	36	59	02	120	50	45	000		1948		24
BO 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M	37	00	54	120	53	55	904		1956		24
BO 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M	37	03	00	120	51	50	900		1873		24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M	36	52	52	120	56	25	900		1932		24
CO 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35	37	00	119	41	17	900		1912		15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36	54	48	119	14	42	905		1960		10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E	M	B	38	01	00	119	53	00	900		1948		55
BO 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M	36	55	15	120	01	12	904		1952		20
BO 5236	MADERA R S	200	SEC 13	T11S	R18E	F	M	36	58		120	03	900		1950		20	
CO 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M	35	21	42	118	55	18	004		1927		15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M	37	20	31	119	19	45	905		1947		20
BO 5303	MANTECA	44	SEC 04	T02S	R07E	H	M	37	47		121	12	900		1964		39	
CO 5338	MARICOPA	680	SEC 36	T12N	R24W	J	S	35	04	52	119	23	09	900		1911		15
CT 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S	35	04		119	24	000		1959		15	
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M	37	29	10	119	58	00	900		1909		22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M	37	29	20	119	57	55	000		1958		22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M	37	26	30	119	49	37	000		1952		22
B5 5352	MARIPOSA R S	2100	SEC 15	T05S	R18E	F	M	37	30	04	119	59	05	808	045352	1943		22
B6 5353	MARIPOSA USONA	2550	SEC 01	T06S	R19E	D	M	37	26	39	119	50	38	000		1965		22
CT 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36	20	24	120	24	54	000		1959		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M	37	53	25	119	51	10	900		1930		21
BO 5408-80	MATTOS RANCH	170	SEC 14	T11S	R10E	M	M	36	59	00	120	51	03	000		1961	1965	24
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	M	37	43	18	120	05	48	000		1959		22
CT 5480-01	MC KITTRICK F S	1051	SEC 21	T30S	R22E	E	M	35	16	20	119	37	20	000		1956		15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M	37	04	38	119	26	00	900		1948		10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M	37	57	10	120	30	53	404		1955		55
BO 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M	36	46	23	120	23	09	043	FN3064	1941		10
CO 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	N	M	36	39	05	120	27	20	806		1958		10
BO 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	C	M	36	47	15	120	22	12	900		1873		10
CO 5529	MENDOTA HALFWAY PUMP	450	SEC 07	T17S	R15E	D	M	36	28	10	120	23	30	000		1956		10
BO 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	O	M	36	44	58	120	28	00	000		1948		10
BO 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	C	M	37	17	43	120	29	13	900		1872		24
BO 5532-01	MERCED SF	170	SEC 30	T07S	R14E	D	M	37	18	01	120	29	02	011		1872		24
BO 5532-03	MERCED 5 SE	198	SEC 06	T08S	R15E	E	M	37	16	00	120	22	36	806		1959		24
BO 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37	17	47	120	21	09	000		1920		24
BO 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37	18	53	120	28	12	900		1938		24
B8 5550	MERCY HOT SPRINGS	1165	SEC 15	T14S	R10E	R	M	36	42	15	120	51	33	900		1932		10
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957		54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S	34	51	02	119	11	18	000		1966		15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M	M	36	26	00	118	35	00	900		1956		54

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INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Block & Meridian		Latitude		Longitude		Cooperator's Number	Record Begin	Record End	Years Missing	County Code	
Number	Name					I	II	O	I	O	II						
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900	1958	10	
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M	M	36	45	00	118	43	00	900	1957	10	
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401	1935	55	
BO 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900	1926	50	
BO 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010	1959	50	
BO 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M	37	38	36	121	00	29	900	1942	50	
CS 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M	M	36	13	00	118	10	00	900	1940	50	
CO 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M	M	35	06	15	118	58	00	001	1963	15	
C1 5932	MORAIN CREEK	8840		T14S	R15E	M	M	36	43		118	34		903	1964	54	
C3 5883	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36	14	30	118	42	54	901	1963	54	
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37	17		119	06		004	1963	10	
BO 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900	1889	50	
CO 6230-50	NORTH BELBRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000	1953	15	
BT 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900	1904	20	
BO 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000	1880	01 50	
BO 6305	OAKDALE WOODWARD DAM	215	SEC 09	T01S	R10E	Q	M	37	51	28	120	52	42	900	1918	50	
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000	1961	20	
CO 6393	OLDFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808	046393	1952	10
CT 6395	OLDFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	M	36	18	00	120	20	40	900	1949	10	
C5 6462	ONX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903	1938	15	
CO 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900	1931	10	
CO 6414	OLD RIVER 3 S	315	SEC 20	T30S	R27E	D	M	35	13	18	119	06	21	006	1965	15	
BO 6490	ORSTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	000	1896	50	
B5 6552	OSTRANDER LAKE	8600		T03S	R22E	M	M	37	38	00	119	33	00	900	1947	22	
BB 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900	1949	24	
CO 6651	PALOMA RANCH	290	SEC 33	T31S	R26E	P	M	35	10	52	119	11	28	002	1957 1965	15	
BB 6675	PANOCH	1265	SEC 25	T15S	R10E	E	M	36	35	47	120	49	58	900	1922	35	
BB 6676	PANOCH 2 W	1320	SEC 21	T15S	R10E	M	M	36	36	30	120	52	48	407	06 1957	35	
BO 6677	PANOCH CREEK	370	SEC 29	T14S	R13E	D	M	36	41		120	35		000	1963	10	
BO 6679-05	PANOCH WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000	1949	10	
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	M	38	03	00	119	40	00	900	1948	55	
D3 6706	PARKFIELD 7 NNW	3590	SEC 21	T22S	R14E	N	M	36	59	46	120	28	26	900	1948	10	
BO 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	M	37	28	00	121	07	00	000	1912	50	
C6 6754	PATTWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900	1956	15	
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	M	36	36	00	118	40	00	900	1915	54	
BB 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	003	046839	1954	24
B3 6893	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	02	000	1922	55	
B3 6893-01	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	M	38	12		119	59		905	1964	55	
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903	1949	10	
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905	1954	10	
CO 7055-80	POND 1 N	268	SEC 19	T25S	R25E	M	M	35	44		119	19		806	1962 1966	15	
CO 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900	1893	54	
CO 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000	1958	54	
CS 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	M	35	48	00	118	34	00	900	1953	54	
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	M	35	48	00	118	38	00	900	1954	02 54	
CO 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001	1913	15	
BO 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	10	40	013	1955	10	
B4 7145	PRIEST	2285	SEC 36	T01S	R15E	M	M	37	49	00	120	16	00	401	1928 1965	55	
CS 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	M	36	07	00	118	32	00	900	1955	54	
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	M	36	59	00	118	43	00	900	1961	10	
B6 7270-01	RAYMOND 3 SW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000	1940	20	
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000	1957	22	
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000	1954	22	
CO 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004	1888	54	
CO 7354-80	REDDLEY MVD	345	SEC 27	T15S	R23E	M	M	36	37		119	27		808	1962	10	
BO 7447-80	RIPON	65	SEC 20	T02S	R08E	M	M	37	44	33	121	07	21	000	1963	39	
CO 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000	1917	10	
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000	1957	22	
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	M	36	04	24	118	38	12	901	1964	54	
CO 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001	1914	15	
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	M	37	19	00	118	52	00	900	1953	10	
CS 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	M	35	58	00	118	21	00	900	1947	54	
B4 7623	SACHS SPRINGS	7900	SEC 25	T03N	R19E	M	M	38	06	00	119	51	00	900	1948	55	
CO 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900	1901	15	
CO 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000	1959	10	
CO 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808	1958	10	
CO 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000	1919	10	
BT 7817	SAN JOAQUIN EXP RANGE	1100	SEC 05	T10S	R21E	E	M	37	05	40	119	43	38	900	1934	20	
CO 7819-80	SAN JOAQUIN MVD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808	1962	10	
BO 7836-01	SAN JUAN RCH CO	105	SEC 10	T10S	R12E	B	M	37	04	50	120	38	35	005 P05121	1947	24	

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Begin	Record Ended	Years Missing	County	Code
Number	Name														
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M 37 03	121 04	904		1959					24
B0 7855	SAN LUIS CANAL CO HO	106	SEC 21	T10S	R12E	C M 37 03 15	120 39 45	013		1944					24
C0 7987-80	SANTIAGO RANCH M & L	437	SEC 27	T12N	R22W	S 35 05 35	119 12 35	000		1963					11
C6 8304	SMITH FLAT	3800	SEC 32	T10N	R23W	K S 34 54 24	119 21 15	000	000004	1960					15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M 37 31 24	120 26 18	000		1882		19 24			
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J M 37 32 35	120 28 57	000		1949					24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M 37 50 00	119 30 00	900		1947					22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P M 37 01 30	119 15 06	905		1960					10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M 37 59 00	120 23 00	900		1887					55
C0 8375-50	SOUTH BELGRADE	575	SEC 28	T28S	R21E	R M 35 27 23	119 42 37	000		1938					15
B0 8378	SOUTH DOS PALOS	116	SEC 21	T11S	R12E	A M 36 57 52	120 39 15	000		1938					24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N M 37 30 26	119 37 55	900		1941					22
CO 8407-11	SOUTH LAKE FARMS HDO	1390	SEC 13	T23S	R21E	A M 35 56 02	119 38 46	000		1959					16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H M 38 10 06	120 06 08	003		1921					55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D M 36 09 47	118 42 21	900		1953					54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B M 36 08 09	118 48 40	900		1924					54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q M 36 11 35	118 39 23	900		1907					54
C1 8474-80	SUBW VALLEY FR	1750	SEC 35	T13S	R25E	P M 36 44 58	119 12 21	808		1961					10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L M 38 08 23	120 12 10	900		1957					55
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M 36 56 00	118 35 00	900		1955					10
CO 8520	STEVENSON DIST SC 33	212	SEC 33	T21S	R23E	K M 36 03 27	119 29 17	002		1951					54
C3 8620	SUCCESS DAM	590	SEC 15	T21S	R28E	L M 36 03 00	118 55 00	903		1959					54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q M 37 05 12	119 12 36	000		1960					10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J M 35 08 34	119 27 53	900		1940					15
C7 8755	TAFT TKR RADIO	1030	SEC 14	T32S	R23E	G M 35 08 50	119 28 18	000		1954					15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M 35 08 00	118 27 00	900		1876					15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C M 35 08 05	118 26 31	900		1940					15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H S 35 01 35	118 44 38	900		1895					15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E M 36 24 37	119 00 20	903		1959					54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P M 36 18 47	120 21 51	000		1959					10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C M 36 22 00	118 51 00	900		1940					54
C2 8914	THREE RIVERS FH NO 2	950	SEC 07	T17S	R29E	Q M 36 27 40	118 52 40	900		1909					54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K M 36 27 58	118 51 40	900		1940					54
CO 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C M 36 37 57	120 14 13	000		1953					10
CO 9011-80	TRAVER 4 ESE	283	SEC 19	T17S	R24E	E M 36 26 15	119 25 00	806		1962 1966					54
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A M 36 54 05	119 17 16	905		1948					10
B6 9020-15	TRIANGLE-YORK	3150	SEC 20	T05S	R20E	D M 37 29 18	119 48 41	000		1965					22
CO 9051	TULARE	293	SEC 01	T20S	R24E	N M 36 12 45	119 19 50	004		1919					54
CO 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A M 36 04 41	119 47 33	002		1953					16
CO 9052	TULEFIELD	300	SEC 18	T32S	R28E	B M 35 09 00	119 01 00	900		1948					15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D M 36 09 42	118 42 22	004		1910					54
C3 9060	TULE RIVER FH	1240	SEC 06	T21S	R30E	D M 36 08 07	118 47 15	004		1910					54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M 36 22 00	118 17 00	900		1945					54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L M 37 52 30	120 36 12	404		1958					05
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M 37 53 00	119 20 00	900		1947					55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D M 37 29 28	120 51 00	900		1893					50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q M 37 27 52	120 54 39	000		1958					10
B0 9073-02	TURLOCK 8 WSW	60	SEC 34	T05S	R09E	D M 37 40 24	120 58 30	000		1958					50
CO 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J M 35 32 00	119 16 40	906		1922					15
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H M 35 53	118 39	900		1965					54
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M 37 22 00	118 59 00	900		1946					10
CO 9304	VESTAL	500	SEC 17	T24S	R27E	M 35 50 24	119 05 12	004		1920					54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M 36 45	118 25	901		1964					10
CO 9367	VISALIA	354	SEC 29	T18S	R25E	M 36 19 45	119 17 18	900		1903					54
CO 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D M 36 19 32	119 13 24	000		1959					4
CO 9452	WASCO	333	SEC 12	T27S	R24E	J M 35 35 35	119 19 57	900		1899					15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P M 37 32	119 40	900		1941					22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D M 35 40 00	118 18	70 900		1947					15
CO 9535	WEST CAMP SLF	290	SEC 11	T24S	R19E	R M 35 50 51	119 52 43	007		1959					16
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M 37 26 58	119 38 59	905		1961					20
CO 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R M 36 13 38	119 59 40	900		1921					10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B M 37 33 00	121 12	80 900		1928					10
C5 9602	WET MEADOW	9200		T18S	R32E	M 36 21 00	118 34	90 900		1959					4
CO 9614-81	WHEELER RDE LNU A-12	1230	SEC 01	T10N	R20W	G S 34 38 38	118 57 2 806			1963					15
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q M 36 42 05	118 55 56	815		1966					54
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K M 37 20 12	121 12	80 900		1961					22
CO 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D M 35 26 12	119 45 10	001		1962					16
C1 9749	WISHON LAKE	6 60	SEC 01	T11S	R27E	M 37 00 4	118 8 20	003		1957					10
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T2-S	R33E	H M 35 43	118 27 00	PN4 27 1894		1959					10
C1 9773	WOODCHUCK MEADOW	9200	SEC 27	T10S	R28E	M 37 02 00	118 54 00	900		1959					10
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C M 3 42 02	118 50 34	B08 0498		1959					15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M 37 45 00	119 35 00	900		1904					22

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in connection with this table are as follows:

- No record or record incomplete.
- * Amount included in the following measurement. Time distribution unknown.
- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- V Includes total from previous month.
- RB Record begins.
- RE Record ends.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A - 2 (Cont.)
PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Precipitation In Inches												Total July To Sept 30		
	1965						1966								
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.
MODESTO	0.01	0.70	0.03	0.08	3.54	2.11	1.46	1.05	0.25	0.48	0.22	0.09	0.05	0.00	9.33
MODESTO KTRB	10.28	0.01	0.74	0.04	0.09	1.98	1.55	1.18	0.21	0.62	0.27	0.09	0.05	0.00	9.58
MODESTO 2	9.56	0.00	0.55	0.02	0.08	3.39	2.06	1.27	0.21	0.40	0.20	0.11	0.04	0.00	9.03
NEWMAN 2 NW	10.78	0.00	0.32	0.08	4.96	1.87	1.14	1.47	0.23	0.44	0.27	0.00	0.11	0.00	10.57
ONDALE	12.29	0.00	0.94	0.12	4.33	2.36	1.96	1.46	0.21	0.49	0.21	0.09	0.06	0.00	11.41
OKLANDE WOODWARD DAM	0.00	0.49	0.04	0.15	3.38	2.22	2.10	1.17	0.23	0.45	0.13	0.00	0.07	0.00	9.90
ORESTIMA	10.50	0.00	0.35	0.00	4.65	1.92	1.25	1.47	0.25	0.33	0.24	0.00	0.00	0.00	10.25
PANOCHE CREEK	6.09	0.00	0.04	0.00	3.45	1.45	1.45	0.34	0.64	0.00	T	0.15	0.02	0.13	6.19
PANOCHE WATER DIST	7.61	T	0.16	0.00	4.34	1.09	0.77	0.69	0.13	0.07	0.16	0.09	0.00	0.00	7.58
PATTERSON	9.36	0.00	0.43	0.00	3.74	1.98	0.89	1.28	0.26	0.28	0.44	0.02	0.17	0.00	9.10
POSO CANNAL CO HDQ	6.38E	0.00	0.00	0.04	3.23	1.12	0.82	0.62	0.01E	0.02	0.40E	T	0.03	0.00	6.29E
RIPON	10.58	0.01	0.59	0.00	3.53	2.28	1.56	1.63	0.20	0.42	0.18	0.13	0.12	0.00	10.13
SAN JUAN RCH CO	8.35	0.00	0.16	0.00	4.55	1.56	0.86	0.52	0.10	0.15	0.45	0.00	0.00	0.00	8.19
SAN LUIS CANNAL CO HQ	7.56	0.00	0.14	0.00	4.13	1.50	0.74	0.52	0.06	0.14	0.26	T	0.00	0.03	7.45
SNELLING						RB	1.38	0.36	0.26	0.48	0.00	0.00	0.02	0.00	0.10
SNELLING 3 NW	10.81	0.00	0.47	0.00	4.89	2.35	1.36	0.56	0.31	0.49	0.12	0.00	0.00	0.00	10.34
SOUTH DGS PALMS	7.66E	0.00	0.17	0.00	4.31	1.25	0.82	0.64	0.03	0.10	0.25	0.00E	0.04	0.00E	7.57E
TURLOCK	11.75	T	0.52	0.09	4.87	2.67	1.57	0.94	0.35	0.46	0.28	T	0.09	0.00	11.33
TURLOCK 5 SW	11.82	0.00	0.00	0.00	5.81	3.05	0.65	1.08	0.45	0.28	0.50	0.00	0.00	0.15	11.97
TURLOCK 8 NW	10.79	0.00	0.62	0.00	3.97	2.11	1.62	1.27	0.32	0.42	0.39	0.00	0.06	0.00	10.23
WESTLEY	7.66	0.00	0.00	0.04	3.34	1.90	0.94	0.83	0.25	0.26	0.00	0.12	T	0.19	7.87
STANISLAUS RIVER															
BARDELEY DAM	26.34		1.47	0.60	11.88	4.59	1.68	2.33	1.00	2.39	0.43	0.10	0.13	0.00	25.28
CALAVERAS RANGER STA	30.19	0.00	1.08	0.38	11.75	6.56	2.23	3.39	1.07	2.56	0.33	0.06	0.03	0.00	29.04
COPPERPOLIS	30.99	0.00	0.95	0.07	16.87	4.15	2.48	2.22	0.66	2.86	0.23	0.05	0.02	0.00	29.63
ELMWOOD	22.86	0.00	0.52	0.07	19.03	4.68	2.50	3.09	0.68	1.17	0.32	0.04	0.05	0.00	22.33
MELONES DAM			0.51	0.07										T	
PINECREST STRAWBERRY	35.26	0.00	2.26	0.71	15.56	6.29	1.54	2.90	1.50	2.87	0.76	0.25	0.00	0.36	32.90
PINECREST SUMMIT R S	34.81	0.00	2.10	0.73	15.21	7.23	0.90	3.07	1.35	2.64	0.70	0.23	0.00	0.31	30.12
SPRING GAP FOREAY	34.99E	0.00	1.79	0.80	14.62	6.62	1.62	2.94	1.66E	2.86	0.70	0.17	T	0.00	32.57E
STANISLAUS P H	24.31	0.00	1.30	0.31	10.77	3.92	2.59	2.03	0.37	0.65	0.15	0.02	0.00	0.23	23.52E
TULLOCH DAM	18.05	0.00	0.70	0.01	11.90	3.93	2.59	2.03	0.37	0.65	0.15	0.02	0.00	0.01	17.38
TUOLUMNE RIVER															
CHERRY VALLEY DAM	32.49	0.01	0.68	0.04	16.72	6.57	2.16	1.94	0.97	2.58	0.32	0.03	0.03	0.00	31.01
DON PEDRO RESERVOIR	16.46	T	0.76	0.01	7.12	3.73	1.45	1.51	0.40	0.95	0.59	T	0.05	0.00	15.85
GRANDVIEW P H	21.28	0.00	0.39	0.00	13.66	5.53	1.75	2.92	0.60	1.52	0.29	0.03	0.00	0.23	27.09
GROVELAND P H	23.34	0.00	1.14	0.00	13.61	6.53	1.75	2.92	0.60	1.52	0.29	0.03	0.00	0.00	28.46
GROVELAND R S	23.34	0.00	0.85	0.00	14.77	4.42	2.69	2.38	0.57	1.46	0.34	0.06	0.05	0.00	28.16

TABLE A-2 (Cont.)

PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Precipitation in Inches												Total Oct.1 Sept.30				
	1965						1966										
	Total July1 To June 30	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May		June	July	Aug	Sept.
HETCH HETCHY	30.16	0.97	3.41	0.49	0.65	11.33	7.7	1.59	2.62	2.62	2.56	0.88	0.38	0.01	0.00	0.38	-
LAKE ELEANOR	0.30	0.30	3.00E	0.10	0.40	12.30	6.70	1.80	2.00	0.94	2.05	0.47	0.12	0.06	0.00	0.15	26.99
MATHER	25.82	0.52	2.68	0.47	0.47	11.81	4.85	1.04	1.55	0.68	1.69	0.89	0.24	T	T	0.00	23.25
MOCCASIN	23.86	0.00	1.35	T	0.71	10.27	5.35	1.82	2.42	0.35	1.29	0.30	T	0.01	0.00	0.13	22.65
PRIEST	-	0.00	1.46	T	0.77	RE	-	-	-	-	-	-	-	-	-	-	-
SONORA R S	25.67	T	0.67	0.11	0.60	10.90	5.31	2.81	3.07	0.66	1.33	0.39	0.04	0.04	0.00	0.21	25.36
MERCED RIVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BAGBY VALLEY	21.06	T	0.42	0.00	0.70	11.40	4.38	1.40	1.48	0.41	0.60	0.27	0.00	T	0.00	RE	-
CATHEYS VALLEY 3 NW	16.96	0.00	0.15	0.00	0.90	10.84	5.20	1.40	1.05	0.43	0.57	0.30	0.00	-	-	-	-
COUTERVILLE FFS	22.53E	0.00	0.71	0.00E	0.71	11.26	5.21	1.43	1.57	0.15	1.27	0.22	0.00	0.03	0.00	0.28	22.13
DUDDEYS	29.83	T	0.64	T	0.74	15.53	6.22	1.46	2.81	0.54	1.48	0.37	0.04	0.05	0.00	0.36	29.60
EXCHEQUER RES	14.23	0.00	0.00	0.00	0.44	7.09	3.39	1.22	1.00	0.42	0.47	0.10	0.00	0.05	0.00	0.15	14.43
HORNITOS DELGADON BH	16.35	0.00	0.09	0.00	0.58	18.33	5.83	2.30	2.50	0.26	1.78	0.30	0.00	0.00	0.00	0.35	-
HORNITOS GILES RCH	14.42	T	0.35	0.00	0.50	6.50	3.75	1.37	1.21	0.42	0.42	0.10	0.00	0.11	0.00	0.07	14.25
HORNITOS USCE	-	-	-	-	-	6.64	3.38	1.05	1.12	0.40	0.49	-	-	-	-	-	-
INDIAN GULCH	14.49	0.00	0.30	0.00	0.55	6.78	3.94	1.09	0.95	0.36	0.52	0.00	0.00	0.12	0.00	0.07	14.38
MARIPOSA G S	21.76	0.00	0.12	0.18	0.54	13.72	5.24	3.64	4.38	1.29	1.62	0.73	0.16	T	0.00	0.64	37.88
MARIPOSA R	22.69	0.00	0.00	0.00	0.60	11.41	4.57	1.48	2.11	0.60	1.02	0.80	0.00	0.05	0.00	0.40	23.31
MARIPOSA R S	22.45	0.00	0.07	0.00	0.45	12.45	5.17	1.14	1.32	0.30	0.77	0.78	0.00	0.04	0.00	0.23	22.65
MC DIERNID STA	-	0.00	0.50	0.00	0.65	0.71	5.09	2.45	3.28	0.82	-	-	T	0.01	0.00	0.10	-
MARIONA R	35.14	0.14	0.07	0.02	0.50	18.46	6.97	2.49	3.28	0.82	1.70	0.84	0.37	0.04	0.00	0.64	35.57
YOSEMITE NAT PAIK	20.53	0.70	1.31	0.12	0.56	12.99	6.40	1.04	3.06	1.00	1.53	0.54	0.28	T	0.00	0.42	27.82
FRESNO-CHONCHILLA E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AWANNEE 2 NW	21.38	0.00	0.00	0.00	0.72	8.70	4.56	2.14	2.06	0.43	1.35	1.24	0.04	0.07	0.00	0.23	21.63
OWENSBURG SPRING	13.99	0.00	0.09	0.00	0.60	9.27	5.24	1.43	1.43	0.23	0.52	0.43	0.00	0.10	0.00	0.20	16.56
CATHEYS VAL BULLRUN	16.31	0.00	0.05	0.00	0.55	8.44	3.71	1.42	0.87	0.28	0.54	0.26	0.00	0.10	0.00	0.06	15.70
CATHEYS VAL SAWYER	15.78	0.00	0.24	T	0.62	7.76	3.80	1.18	1.00	0.35	0.57	0.26	0.00	0.10	0.00	0.00	14.99
CATHEYS VAL STONIBOIS	14.99	T	0.12	0.00F	0.67	7.56	3.76	1.05	0.77	0.31	0.45	0.30	0.00	0.12	0.00	0.00	14.99
COARS@GOLD	19.07	0.2	0.03	0.00	0.57	7.50	4.72	1.63	2.07	0.14	1.27	0.71	0.04	0.06	0.00	0.22	19.33
COARS@GOLD	12.57	0.00	0.00E	0.21	0.40	6.02	3.08	1.86	1.86	0.40	0.85	0.40	0.00	0.00	0.00	0.22	13.63
HIDDEN VALLEY	27.13	0.00	0.24	0.00	0.52	11.91	6.42	3.03	1.80	0.38	1.62	1.12	0.00	0.03	0.00	0.26	27.17
MARIPOSA 8 SW	-	-	-	-	-	8.12	5.39	1.55	2.03	0.35	1.13	1.00	0.00	0.00	0.00	0.37	21.48
OAKHURST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE A-2 (Cont.)
PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Precipitation in Inches												Total Oct.1 To Sept.30				
	1965						1966										
	Total July1 To June 30	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May		June	July	Aug.	Sept.
RAYMOND J SSW	12.17	0.00	0.00	0.00	0.24	5.39	3.58	1.03	0.85	0.05	0.69	0.34	0.00	0.24	0.00	0.00	12.41
RAYMOND 10 N	19.02	0.00	0.23	0.00	0.41	8.34	4.06	1.00	1.72	0.30	0.86	0.32	0.00	0.00	0.00	0.12	18.01
RAYMOND 12 NNE	19.02	0.00	0.23	0.00	0.41	7.72	3.72	1.30	0.89	0.60	0.89	0.34	0.00	0.00	0.00	0.02	14.02
RAYMOND 14 N	19.02	0.00	0.23	0.00	0.41	7.72	3.72	1.30	0.89	0.60	0.89	0.34	0.00	0.00	0.00	0.02	14.02
TRIANGLE YORK	37.35	0.01	0.11	0.02	0.56	17.93	8.68	2.99	3.43	0.95	1.39	1.49	0.16	0.03	0.00	0.32	27.95
WESTFALL R S	37.35	0.01	0.11	0.02	0.56	17.93	8.68	2.99	3.43	0.95	1.39	1.49	0.16	0.03	0.00	0.32	27.95
WHITE ROCK PRESTON	18.77	0.08	0.15	0.00	0.31	7.33	4.03	1.50	2.93	0.34	1.16	0.79	0.15	0.01	0.00	0.12	18.67
SAN JOAQUIN RIVER	29.99E	0.08	0.48	0.00E	0.67	14.76	5.59	1.08	3.29	0.82	1.63	0.93	0.66	T	0.02	0.25	29.70
AUBERRY 1 NNE	24.85E	0.00	0.09	0.00E	1.08	11.27	5.05	1.19	2.91	0.82	1.27	0.64	0.53	T	0.00	0.19	24.95
BIG CREEK PH NO 1	20.36E	0.00	0.04	0.00E	0.54	8.78	4.90	1.02	2.52	0.58	1.20	0.62	0.16	T	0.00	0.30	20.52
BIG CREEK PH NO 2	22.18E	T	0.07	0.00E	0.80	9.69	4.79	1.11	3.03	0.77	1.19	0.46	0.27	0.00	0.00	0.30	22.31
BIG CREEK PH NO 3	30.66	T	0.11	0.03	0.49	13.76	8.05	1.72	3.25	0.45	1.53	1.07	0.20	0.01	0.00	0.08	30.61
BIG CREEK PH NO 8	25.86	1.56	2.38	0.00	0.14	10.23	5.57	0.88	1.57	1.01	0.52	1.02	0.98	0.02	1.12	0.06	23.12
CRANE VALLEY PH	9.28	0.00	0.01	0.00	0.28	3.79	2.13	0.73	1.00	0.08	0.91	0.29	0.06	0.01	0.00	0.03	9.31
FLORENCE LAKE	12.70	0.00	0.00	0.00	0.28	3.79	2.13	0.73	1.00	0.08	0.91	0.29	0.06	0.01	0.00	0.00	12.70
FRIANT GOVERNMENT CP	33.48	0.34	0.67	0.49	0.67	14.02	7.81	1.70	3.62	1.39	1.79	0.64	0.34	0.05	0.45	0.21	32.69
FRIANT STILLWELL	20.72	T	0.09	0.00	0.52	8.48	4.54	1.76	2.41	0.47	1.32	0.94	0.19	T	0.00	0.13	20.76
FRIANT URRUTIA	19.0	1.4	1.4	0.9	0.3	6.8	2.5	0.6	2.9	0.6	0.6	0.7	0.4	T	0.00	0.07	19.0
HUNTINGTON LAKE	23.51	T	0.00	T	0.41	10.21	5.77	1.67	2.93	0.36	1.22	0.82	0.12	0.00	0.00	0.08	23.59
MENDON LAKE	12.70	0.00	0.00	0.00	0.39	5.58	3.24	0.80	1.42	0.15	0.73	0.30	0.07	0.01	0.00	0.07	12.76
MT GIVENS	7.33	0.03	0.37	0.00	0.02	3.00	1.94	0.61	0.82	0.21	0.12	0.14	0.07	0.21	0.00	0.00	7.14
NORTH FORK R S	13.75	0.07	0.05	0.00	0.00	4.99	2.35	0.70	0.79	0.11	0.16	0.41	0.00	0.22	0.00	0.00	9.73
SAN JOAQUIN EXP RGE	13.75	0.07	0.05	0.00	0.00	7.51	3.38	1.17	0.85	0.28	0.39	0.35	0.00	0.62	0.00	0.18	14.43
SAN JOA VAL WESTSIDE	7.06	0.26	0.26	0.00	0.04	2.56	1.57	0.77	1.08	0.14	0.17	0.13	0.08	0.20	0.00	0.08	6.52
CASTLE ROCK RAD LAB	0.20	0.24	0.00	0.00	0.06E	2.54	1.36	0.60	0.60	0.14	0.17	0.13	0.08	0.20	0.00	0.08	6.52
DEL PUERTO ROAD CAMP	7.23	0.00	0.00	0.00	T	5.06	1.39	0.29	0.11	T	0.07	0.24	T	0.29	0.00	0.15	7.60
IDRIA	6.94	0.01	0.06	0.00	0.00	4.57	1.38	0.19	0.50	0.00	0.15	0.08	0.00	0.21	0.00	0.28	7.36
KERLINGER	10.06	0.00	0.25	0.00	0.02	4.62	3.12	0.84	0.60	0.05	0.31	0.25	0.00	0.00	0.00	0.03	9.84
LOS BANOS ARBURUA	7.49	T	0.02	0.03	T	4.26	1.97	0.29	0.54	0.16	0.01	0.21	T	0.57	0.00	0.14	8.15
PACHECO PASS	14.82E	0.00E	0.13	0.00	0.03	6.11	5.03	1.73	1.17	0.25	0.37	0.00	0.00	0.48	0.00	0.43	15.60
PANOCHE 2 W	8.94	0.00	0.16	0.00	0.03	4.97	1.72	0.60	0.78	0.05	0.35	0.23	0.00	0.12	0.00	0.00	8.90
PREFEER RCH	8.94	0.00	0.16	0.00	0.03	4.97	1.72	0.60	0.78	0.05	0.35	0.23	0.00	0.12	0.00	0.00	8.90
SAN LUIS DAM	8.94	0.00	0.16	0.00	0.03	4.97	1.72	0.60	0.78	0.05	0.35	0.23	0.00	0.12	0.00	0.00	8.90

TABLE A-2 (Cont.)
PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Precipitation in Inches												Total Precip. To Sept 30				
	1965						1966										
	July To June 30	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May		June	July	Aug	Sept.
TULARE LAKE BASIN																	
TULARE LAKE VAL FL																	
ANGLOIA	5.97	0.02	0.32	0.05	T	1.75	2.12	0.74	0.66	0.45	0.00	0.03	0.21	T	0.00	0.06	0.64
ARVIN	4.79	0.28	0.00	0.00	0.00	0.91	1.47	0.62	1.18	0.33	0.30	0.03	0.00	0.00	0.00	0.00	4.64
AVENAL ORCHARD	7.70	0.40	0.00	0.04	0.00	3.40	2.36	0.44	0.48	0.00	0.16	0.00	0.00	0.00	0.00	0.00	7.32
AVENAL WALDEN	5.55	0.16	0.00	0.00	0.00	2.91	1.46	1.35	0.57	0.80	0.00	0.00	0.10	0.10	0.00	0.00	4.8
BAKERSFIELD 1 N	5.35	0.35	0.01	0.00	0.00	1.23	1.27	1.13	1.14	0.18	0.00	0.00	T	0.00	T	0.00	5.5
BAKERSFIELD WB AP	5.18	0.36	T	0.10	0.00	1.08	1.60	0.70	1.14	0.29	0.00	T	T	T	T	0.03	4.81
BELLEVIEW	6.12	0.46	0.13	0.06	0.00	1.00	1.50	1.30	1.11	0.25	0.00	0.00	0.17	T	0.00	0.15	5.62
BLACKWELLS CORNER	6.07	0.84	0.05	0.00	0.00	1.13	1.58	1.27	1.09	0.00	0.00	0.00	0.01	T	0.00	0.15	6.2
BUENA VISTA RCH		0.88	0.12	0.00	0.00	0.90	1.57	1.45	0.85E	0.00	0.00	0.00	0.01	T	0.00	0.15	6.2
BUENA VISTA RCH M&L																	
BUENA VISTA RCH M&L2																	
BUTTONWILLOW	4.84	0.85	0.14	0.09	0.00	1.16	1.56	1.03	0.71	0.32	0.20	T	0.09	0.00	0.00	0.13	4.14
BUTTONWILLOW 1 SE	5.06	0.80	0.08	0.06	0.00	1.13	1.39	1.01	0.83	0.02	0.00	0.00	RE	0.00	0.00	0.17	4.94
CANFIELD RCH	7.22	0.57	0.19	0.10	0.50	1.01	1.50	0.92	1.08	0.06	0.00	0.15	0.00	0.00	0.00	0.11	7.2
CANTUA RCH		0.00	0.00	0.00	0.00	4.55	0.53	0.38	1.40	T	0.00	0.06	0.00	0.2	0.00	0.11	7.2
CARRIERS 4 E	6.16	0.95	0.03	0.00	0.15	2.59	1.45	0.84	0.80	0.04	0.00	0.00	0.19	0.19	0.00	0.15	6.4
CENTRAL	6.29	0.91	0.12	0.30	0.10	0.59	1.82	1.24	1.50	0.00	0.00	0.00	0.70	0.00	0.00	0.06	6.3
COALINGA	8.10	0.11	T	T	0.00	4.80	1.46	0.47	0.95	0.00	0.00	0.20	0.06	0.26	0.00	0.09	8.39
COALINGA 1 SE		0.10	0.00	0.00	0.00	4.80	1.35	0.50	0.89	0.00	0.00	0.05	0.06	0.33	0.00	0.13	8.34
COALINGA GDF	8.00	0.08	T	0.00	0.00	5.21	1.22	0.42	1.00	0.14	0.00	0.00	0.00	0.26	0.00	0.13	8.34
COALINGA FEED YRD IN																	
COIT BANCHEO	6.41	0.00	0.00	0.00	0.00	5.07	1.45	0.33	0.80	0.00	0.00	0.00	0.04	0.20	0.00	0.11	6.4
CORCORAN IRRIG DIST	5.06	0.01	0.02	0.02	0.00	3.45	1.45	0.33	0.80	0.01	0.01	0.23	0.04	0.20	0.00	0.11	6.4
CORCORAN EL RICO 1	4.99	0.00	0.00	0.00	0.00	1.58	1.83	0.51	0.80	0.06	T	0.06	0.11	0.01	0.00	0.11	6.4
CORCORAN EL RICO 33	5.18	0.03	0.00	0.00	0.00	1.56	1.83	0.51	0.83	0.00	0.00	0.00	0.06	0.11	0.00	0.11	6.4
DELANO	4.73	0.00	0.17	0.05	0.00	1.27	1.91	0.53	0.67	0.00	0.00	0.00	0.16	0.00	0.00	0.00	4.7
DELANO DEN SLF	4.16	0.42	0.00	0.06	0.00	0.59	1.72	0.63	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1
DIGORGO	6.29	0.14	0.00	0.00	0.00	2.74	1.87	0.62	1.19	0.20	0.00	0.00	0.00	0.00	0.00	0.13	6.2
DINUBA ALTA 1	6.60	0.00	0.11	0.27	0.00	2.49	2.20	0.47	1.48	0.04	0.00	0.00	0.00	0.00	0.00	0.00	6.2
EIGHTH STAFF F&E	6.28	0.70	0.26	0.30	0.00	0.66	1.73	0.80	1.48	0.09	0.00	0.00	0.00	0.00	0.00	0.00	6.2
EXETER PAPER M&L		0.00	0.04	0.00	0.00	2.30	2.29	0.61	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2
FIVE POINTS SCH	6.91	0.40	T	0.04	0.04	1.86	0.94	0.30	0.80	0.10	0.00	0.19	0.24	0.00	0.00	0.00	6.9
FOUNTAIN SPRINGS E	6.26	0.08	0.00	0.00	0.01	1.38	2.09	0.00	1.40	0.64	0.04	0.00	0.00	0.00	0.00	0.00	6.2
FRESNO WB AP	6.14	T	0.02	0.00	0.50	2.64	1.73	0.53	0.54	0.01	0.15	0.10	0.17	0.00	0.00	0.00	6.1

TABLE A-2 (Cont.)
PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Precipitation in Inches												Total Oct1 To Sept.30			
	1965						1966									
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.	Sept.
FRESNO CO WESTSIDE FD	6.93	0.10	T	0.01	4.16	1.12	0.68	0.80	0.02	T	T	0.04	0.30	0.00	0.01	7.13
GEN YARD	0.94	0.17	0.00	0.00	0.97	1.54	0.90	0.90	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HANFORD	5.86	0.00	0.05	0.07	2.15	1.97	0.63	0.71	0.10	0.00	0.00	0.06	0.04	0.00	0.30	6.07
HANFORD WELLS #21	4.27	0.00	0.00	0.00	1.77	1.80	0.43	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.00	5.39
HONOLAND DIST SEC 9	4.37	0.00	0.00	0.00	1.77	1.80	0.43	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.00	4.95
HOMELAND DIST SEC 34	5.01	0.00	0.00	0.00	1.87	0.37	0.52	0.02	0.00	0.00	0.00	0.19	0.00	0.00	0.00	5.01
HURON RCH	6.04	0.00	0.00	0.00	3.22	1.39	0.50	0.82	0.05	0.00	0.00	0.00	0.28	0.00	0.00	6.32
IVANHOE I D	7.33	0.00	0.00	0.00	2.81	2.20	1.08	0.32	0.14	0.00	0.00	0.00	0.00	0.00	0.00	7.33
KETTLEMAN CITY I SSW	5.33	0.11	0.00	0.00	2.16	1.56	0.32	0.83	0.01	0.00	0.00	0.00	0.00	0.00	0.00	6.00
KETTLEMAN HILLS	5.33	0.19	0.00	0.00	2.66	1.21	0.40	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28
KETTLEMAN STATION	5.95	0.17	T	0.08	2.79	1.02	0.31	0.83	0.01	0.00	0.00	0.00	0.00	0.00	T	5.94
LINDSAY	7.50	0.05	0.03	0.24	2.47	2.20	0.62	0.79	0.16	0.05	0.52	0.34	0.00	0.02	0.00	7.20
LOST HILLS	5.29	0.80	0.00	0.02	0.00	1.67	1.68	0.82	0.00	0.00	0.00	0.05	0.00	0.00	0.00	6.05
MAGNUPEN	5.35	0.28	0.03	0.09	0.00	1.11	1.61	0.76	1.05	0.32	0.00	0.00	0.00	0.00	0.00	4.06
MARICOPA	5.35	0.00	0.08	0.09	0.00	1.28	1.85	0.57	1.44	0.04	0.00	0.00	0.00	0.00	0.00	5.56
MENDOTA MARIETTA RCH	7.82	0.00	0.00	0.00	5.09	1.23	0.42	0.67	0.00	0.00	T	0.23	0.05	0.13	0.00	7.96
MENDOTA HALFWAY PUMP	6.84	0.02	0.00	0.00	4.15	0.87	0.43	1.18	0.00	0.00	T	0.10	0.04	0.24	0.00	7.35
MIDDY RCH	6.48	0.50	0.12	0.51	0.96	1.81	0.98	1.51	0.09	0.00	0.00	0.00	0.00	T	0.06	5.41
NORTH BELGRADE	5.31	0.52	0.34	0.01	0.00	2.06	1.43	0.38	0.55	0.00	0.00	0.00	0.02	0.00	0.00	6.44
OILFIELDS F S	8.34	0.05	0.00	0.06	0.00	4.81	1.37	0.65	1.25	0.03	0.02	0.05	0.20	0.00	0.00	9.03
OLD RIVER 3 S	-	0.00	0.00	0.00	0.95	1.21	0.87	1.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ORANGE COVE	8.17	0.00	0.03	0.07	2.91	2.53	0.83	0.58	0.11	0.59	0.40	0.07	0.00	0.00	0.17	8.24
PALOMA RCH	-	RE	0.00	0.00	1.37	1.41	RE	1.41	0.19	T	0.19	0.21	0.00	0.00	0.02	6.49
POND 1 N	6.78	0.10	0.00	0.00	1.92	2.21	0.75	1.00	0.19	T	0.19	0.21	0.00	0.00	0.00	6.49
PORTERVILLE	5.68	0.00	0.00	0.00	1.35	1.25	0.73	0.93	0.13	0.09	0.29	0.25	0.00	0.00	0.00	5.33
PORTERVILLE 3 W	5.56	0.10	0.08	0.02	0.00	1.65	1.04	1.02	0.13	0.00	0.00	0.04	0.00	T	0.00	5.36
POSO RCH	6.18	T	0.00	0.07	0.00	1.99	2.52	0.42	0.48	0.08	0.07	0.32	0.04	0.00	0.00	6.15
RECTOR	7.31	T	0.00	0.02	0.88	2.07	0.60	0.72	0.13	0.12	0.12	0.06	0.02	0.00	T	6.43
REEDLEY WFDO	5.43	0.00	0.00	0.00	2.69	2.07	0.47	0.78	0.06	0.00	0.00	0.07	0.03	0.12	0.23	5.78
RIVERDALE	5.06	0.30	0.08	0.04	1.06	1.37	0.89	1.08	0.24	0.00	0.00	0.00	0.00	T	0.10	4.74
ROSEDALE	5.92	0.32	0.10	0.03	1.10	1.34	1.08	2.17	0.90	0.00	0.05	0.00	0.00	T	0.26	6.73
SAN EMIGDIO RCH	6.87	T	0.00	0.08	2.97	2.16	0.17	0.57	0.05	0.26	0.22	0.01	0.01	0.00	0.12	6.62
SANGER I N	7.17	0.03	0.00	0.08	2.97	2.11	0.84	0.61	0.20	0.04	0.20	0.01	0.00	0.00	0.13	7.15
SANGER R S	5.83	T	0.00	0.00	2.77	1.26	0.54	1.07	0.01	0.00	0.08	0.01	0.15	0.00	0.40	6.38
SAN JOAQUIN	5.83	T	0.00	0.00	2.77	1.26	0.54	1.07	0.01	0.00	0.08	0.01	0.15	0.00	0.40	6.38
SAN JOAQUIN MUD	5.26	0.02	0.00	0.00	3.01	1.21	0.33	1.15	0.00	0.00	0.04	0.00	0.00	0.00	0.31	6.22
SANTA FE RCH M&L	5.70	0.45	0.00	0.45	0.82	1.52	0.73	1.67	0.02	0.00	0.00	0.02	0.00	0.00	0.15	4.95
SOUTH BELGRADE	5.08	0.54	0.20	0.00	1.56	1.54	0.29	0.72	0.04	0.00	0.08	0.03	0.00	0.00	0.02	4.36
SOUTH LAKE FARM HQ	4.46	0.03	0.01	0.00	1.54	1.75	0.37	0.59	0.01	0.00	0.01	0.15	0.00	0.00	0.00	4.42
STEVENSON DIST SC 33	6.14	0.00	0.00	0.31	1.99	1.95	0.64	0.89	0.06	0.00	0.00	0.09	0.21	0.00	0.00	5.83

TABLE A-2 (Cont.)
PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Total July 1 to June 30	Precipitation in Inches												Total Oct.1 Sept.30			
		1965						1966									
		July	Aug	Sept	Oct.	Nov.	Dec	Jan.	Feb.	Mar	Apr.	May	June		July	Aug	Sept.
TEJON RANCHO	-	0.00	0.00	0.82	T	0.71	2.60	1.25	2.03	0.49	0.00	0.08	0.00	0.00	0.00	0.00	7.16
TRANQUILITY GLOTTZ	6.45	T	0.00	0.18	3.49	1.24	0.44	0.91	0.00	0.00	0.00	0.01	0.14	0.00	0.00	0.00	6.73
TRAVER 4 ESE	-	T	0.02	0.00	2.40	0.39	RE	0.52	0.08	0.00	0.00	0.00	0.29	0.00	0.00	0.00	5.30
TULARE	5.40	0.09	0.02	0.01	1.79	1.88	0.45	0.52	0.08	0.00	0.00	0.07	0.00	0.00	0.00	0.00	4.70
TULARE DIST SEC 27	4.70	0.00	0.00	0.00	0.00	1.48	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.70
TULEFIELD	5.36	0.23	T	0.55	0.97	1.43	0.86	1.33	0.09	0.00	0.00	0.00	T	0.00	T	0.00	4.65
U.S. COTTON FIELD STN	4.90	0.31	0.00	0.00	1.09	1.41	0.94	0.88	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.56
VESPAL	5.62	0.04	0.01	0.21	1.39	2.20	0.49	1.04	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.42
VISALIA	5.96	0.00	T	0.10	0.05	1.99	2.01	0.76	0.44	0.09	0.01	0.30	0.21	0.02	0.00	0.00	5.88
VISALIA 4	7.14	0.01	0.01	0.02	2.20	3.13	0.47	0.44	0.11	0.08	0.33	0.24	0.01	0.00	T	0.00	7.03
WASCO	3.94	0.22	0.00	0.03	1.08	1.75	0.94	0.84	0.06	0.00	0.00	0.01	0.05	0.00	T	0.00	4.69
WEST CAMP SLF	5.82	0.42	0.00	0.00	2.49	1.43	0.84	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40
WESTHAVEN	5.48	0.03	T	0.00	0.07	2.36	1.36	0.50	0.92	0.05	0.00	0.14	0.05	0.00	0.00	0.00	5.77
WHEELER RDE LHM A-14	8.15	0.00	1.26	0.70	1.93	1.34	1.93	1.69	0.15	0.00	0.04	0.00	0.00	0.00	0.00	0.00	6.19
WILBUR DITCH	4.37	0.10	0.02	0.00	1.63	1.63	0.33	0.56	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	4.25
KINGS RIVER																	
ACADEMY	8.95	0.00	0.00	0.00	3.29	2.44	0.84	0.75	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.96
BALCH POWER HOUSE	21.37	T	0.15	0.56	7.20	5.99	1.35	2.61	0.60	1.74	0.38	0.07	0.00	0.00	0.00	0.00	20.73
BLASINGAME	15.39	0.04	0.38	0.00	5.96	3.76	1.31	1.46	0.21	1.34	0.47	0.07	0.00	0.00	0.00	0.00	15.01
BRETZ MILL	20.89	0.00	0.00	0.00	6.70	5.93	3.63	1.59	0.48	1.40	0.95	0.09	0.00	0.00	0.00	0.00	20.90
GRANT GROVE	30.73	0.01	0.50	0.46	13.99	7.37	1.53	2.65	0.97	1.91	0.36	0.44	T	0.00	0.00	0.00	30.01
HASLETT BASIN	21.48E	0.00	0.00	0.00	8.08	1.20	6.12	3.21	0.73	1.11	0.85	0.08	0.00	0.00	0.00	0.00	21.49E
LOWER BIG CREEK	17.31	0.00	0.00	0.00	6.98	4.10	2.94	1.38	0.35	0.95	0.47	0.06	0.00	0.00	0.00	0.00	17.32
PINE FLAT DAM	11.55	T	0.10	0.24	3.98	3.86	1.04	0.88	0.14	0.95	0.36	T	0.00	0.00	0.00	0.00	11.47
PINEHURST R S	14.91	0.00	0.20	0.01	6.04	2.13	1.10	2.17	0.55	1.36	0.62	0.25	0.00	0.00	0.00	0.00	14.70
SUNFOOT SNOULE	18.79	0.00	0.00	0.00	6.03	4.02	2.69	2.72	0.76	1.68	0.70	0.08	0.00	0.00	0.00	0.00	18.90
SUNAW VALLEY FR	15.10	0.00	0.00	0.00	4.95	4.14	0.95	2.68	0.25	1.15	0.51	0.20	0.00	0.00	0.00	0.00	15.05
TRIMMER R S	16.87	0.00	0.00	0.00	6.98	3.91	2.48	1.37	0.33	1.18	0.47	0.06	0.00	0.00	0.00	0.00	16.87
WISHON LAKE	42.00	0.10	3.20	0.39	17.69	9.62	1.81	3.34	1.54	2.47	0.06	1.29	0.00	0.00	0.00	0.00	38.47
KAWAHE RIVER																	
ASH MOUNTAIN	15.86	0.00	0.60	0.54	4.61	4.59	1.37	2.21	0.24	0.73	0.33	0.30	0.00	0.00	0.00	0.00	14.89
BADGER	14.86	0.03	0.10	0.11	0.20	4.23	5.07	1.87	0.73	1.17	0.39	0.15	0.00	0.00	0.00	0.00	14.62
GIANT FOREST	31.59	0.23	1.81	1.03	10.18	8.35	2.45	3.26	1.26	1.70	0.46	0.60	T	0.00	T	0.00	28.60
KAWAHE PH 3	14.78	0.15	0.76	0.00	4.48	4.59	1.08	2.11	0.26	0.52	0.29	0.27	0.00	0.00	0.00	0.00	14.02
LEMON COVE	7.98	T	0.02	0.24	0.07	2.39	3.00	0.65	0.72	0.17	0.36	0.19	T	0.00	T	0.00	7.72
MIFAMONTE HONOR CAMP	14.83	0.21	0.13	0.03	4.51	4.64	1.21	1.87	0.55	0.98	0.34	0.17	0.04	0.00	0.00	0.00	14.51
TERMINUS DAM	8.92	0.01	0.05	0.30	0.11	2.50	2.53	1.58	0.82	0.15	0.32	0.22	T	0.00	0.00	0.00	8.56
THREE RIVERS 6 SE	12.61	0.06	0.50	0.69	3.24	4.23	0.56	1.79	0.26	0.40	0.40	0.29	0.26	0.00	0.00	0.00	11.61
THREE RIVERS PH NO 2	12.91	0.02	0.30	0.28	0.20	4.23	3.62	1.13	2.15	0.18	0.33	0.25	0.22	0.00	0.00	0.00	12.69
THREE RIVERS PH NO 1	12.77	0.03	0.49	0.48	3.94	4.31	0.63	1.76	0.20	0.29	0.20	0.22	0.00	0.00	0.00	0.00	12.28

TABLE A-2 (Cont.)

PRECIPITATION DATA
SAN JOAQUIN VALLEY

Station Name	Total July 1 to June 30	Precipitation in inches												Total Oct 1 to Sept 30			
		1965						1966									
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.	Sept.
WETPAKER FOREST	-	0.00	0.63	0.03	0.34	11.41	8.44	-	2.23	0.88	1.61	0.54	0.30	T	T	0.01	-
TULE RIVER																	
CAMP NELSON	20.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MELO S NE	17.54	0.24	0.54	0.62	0.37	4.98	5.93	1.16	2.81	0.48	1.90	0.78	0.40	0.05	0.00	0.02	181.97
SPRINGVILLE 7 ENE	-	0.10	0.34	0.25	0.00	3.77	4.63	2.60	2.60	0.58	1.04	0.44	0.40	0.04	0.00	0.15	166.81
SPRINGVILLE TULE HDN	-	0.15	0.66	0.80	-	-	7.05	0.79	1.21	-	1.21	0.21	0.22	0.04	0.45	0.16	-
SUCCESS DAM	7.13	0.03	0.23	0.13	0.00	1.89	2.51	1.43	3.20	-	1.21	0.25	0.37	0.05	0.00	0.03	-
TULE RIVER INTAKE	17.72	0.18	0.15	0.58	0.11	3.77	5.60	0.94	0.97	0.16	0.05	0.09	0.13	T	0.05	0.05	9.79
TULE RIVER PH	13.20	0.20	0.27	0.45	0.00	3.03	4.94	1.96	2.92	0.48	1.15	0.48	0.38	0.12	0.10	0.10	13.07
UHL R S	13.74	0.13	0.31	0.37	0.05	4.21	4.79	1.40	2.55	1.08	0.59	0.29	0.07	0.00	0.00	0.00	14.71
GREEN HORN MOUNTAIN																	
GLENNVILLE	12.97	0.32	0.58	0.40	0.15	3.18	4.01	1.52	1.99	0.48	0.12	0.11	0.11	0.00	T	0.00	11.67
GLENNVILLE FULTON RS	22.40	0.15	0.25	0.73	0.08	5.32	6.33	0.94	2.04	1.27	1.08	0.26	0.27	0.00	0.00	0.00	20.27
POSEY 3 E	7.85	0.05	0.07	0.28	0.01	2.32	2.83	0.74	0.73	0.52	0.00	0.08	0.00	0.00	0.00	0.06	7.31
WOODY																	
KERN RIVER																	
BOREL PH	9.46	0.13	1.50	0.20	0.00	2.74	2.09	0.78	1.60	0.40	0.01	0.00	0.01	0.00	0.41	0.03	8.07
ISABELLA DAM	7.85	0.39	0.50	0.20	0.00	2.76	2.37	0.66	0.75	0.22	T	0.00	T	0.00	0.00	0.01	7.56
MANSFIELD	5.80	0.05	0.02	0.03	0.00	1.19	1.76	0.83	1.33	0.59	0.00	0.00	0.00	0.00	0.00	0.00	5.78
KERN CANYON	13.06	0.19	0.97	0.17	T	5.74	3.20	0.96	1.36	0.38	0.06	0.01	0.02	0.00	0.58	0.00	12.31
KERN RIVER INTAKE 3																	
KERN R 3 INTAKE SCE	11.50	0.06	1.02	0.00	0.00	5.10	2.59	1.08	1.23	0.38	0.04	T	0.00	0.00	0.60	0.00	11.02
KERN RIVER PH NO 1	7.58	0.00	0.07	0.04	0.00	1.49	2.55	1.23	1.62	0.46	0.00	0.00	T	0.00	0.00	0.13	7.51
KERN RIVER PH NO 3	8.34	0.41	1.04	0.04	0.00	2.54	1.55	0.32	0.58	0.00	0.00	0.00	0.00	0.00	0.19	0.00	8.09
NELSON 1 MSW	-	0.23	0.46	0.11	0.00	1.99	-	0.20	0.63	-	0.00	0.00	0.00	0.00	0.24	0.00	5.18
WOLFORD HEIGHTS	8.38	0.56	1.09	0.20	0.00	2.97	2.29	0.42	0.65	0.20	T	0.00	T	0.24	T	0.00	6.77
TEHACHAPI MOUNTAINS																	
CHUGHAPATE R S	-	0.31	1.77	0.26	0.00	-	3.14	0.94	-	0.28	0.00	0.03	0.04	0.00	1.27	0.41	-
CUMINGS VALLEY 2	6.02	0.19	0.00	0.01	0.00	2.04	3.93	0.32	1.14	0.03	0.01	0.00	0.00	0.00	0.61	0.08	6.51
LEBEC	14.68	0.82	0.29	0.65	0.02	6.39	3.32	1.15	1.56	0.34	0.00	0.14	0.00	T	0.21	0.21	13.13
LORAIN	-	-	0.46	0.10	0.00	2.05	2.46	0.95	1.04	1.06	0.00	0.00	0.00	0.00	0.82	0.00	8.18

TABLE A-2 (Cont.)
 PRECIPITATION DATA
 SAN JOAQUIN VALLEY

Station Name	Precipitation in Inches												Total July 1 To June 30			
	1965						1966									
	July	Aug	Sept.	Oct.	Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June		July	Aug	Sept.
MIL POTRERO PARK	0.26	0.32	0.44	0.09	1.88	2.57	1.33	1.98	0.13	0.00	0.00	0.04	T	0.10	0.50	-
PATTINAW	0.44	1.18	0.00	T	1.91	2.16	0.79	0.99	0.45	0.00	0.18	0.00	0.01	0.30	0.32	7.42
TEHUACAPI	0.37	0.93	0.00	0.00	1.78	2.22	0.47	0.90	0.84	0.00	0.05	0.08	0.00	0.61	0.20	7.15
TEHUACAPI AIRPORT																
TULARE L BAS WESTSIDE																
ANNETTE	9.47	0.40	0.00	0.00	4.31	2.60	1.08	1.08	0.00	0.00	0.00	0.00	0.00	0.25	0.25	9.32
AVENAL B SW	10.50	0.00	0.10	T	5.18	3.37	0.63	1.22	0.00	T	0.00	0.00	0.28	0.00	T	10.52
CHALINGA	8.57	0.45	0.00	0.01	3.63	2.35	0.77	0.88	0.20	0.03	0.00	0.11	0.20	0.00	0.80	9.28
CHALINGA MISSISSIPPI	11.94	0.00	0.04	0.00	7.43	3.02	1.23	0.26	0.00	0.00	0.00	0.00	0.46	0.00	0.00	12.30
CHALINGA ROBERTS RCH																
COALINGA 14 NW	0.32	0.00	0.09	0.00	9.47	3.58	0.83	0.94	0.08	0.03	-	0.05	0.65	0.00	0.19	-
DOMINGUE RCH	9.35	0.04	0.00	0.00	5.86	1.51	0.42	1.21	0.07	0.00	0.36	0.26	0.26	0.00	0.03	9.72
DOMINGUE SPRING	4.51	0.00	0.10	0.05	1.28	1.15	1.89	2.26	0.24	0.00	0.00	0.01	0.25	0.00	0.20	15.80
FELLOWS	4.23	0.30	0.00	1.02	1.48	0.67	0.92	0.08	0.00	0.00	0.00	0.00	0.00	0.30	0.40	4.5
MARICOPA F																
MARTINE SPRIN	13.25	0.00	0.00	0.00	7.15	1.70	1.25	1.50	0.15	0.00	1.00	0.00	T	0.00	0.00	13.25
MEKITTRICK F	4.61	0.17	0.14	0.00	1.11	1.47	0.52	1.17	0.10	0.00	0.60	0.00	0.00	0.00	0.00	4.47
PAFF KTRG RADIO	4.90	0.00	0.11	0.00	1.18	1.50	0.67	1.12	0.02	0.00	0.00	0.04	0.00	0.00	0.28	4.99
THIRTY-TWO CORRAL	15.60	0.00	0.00	0.00	7.25	1.95	1.25	2.40	0.25	0.00	2.00	0.00	T	0.00	0.00	15.60
UPPER SALINAS RIVER																
PARKFIELD 7 NW	-	0.25	0.00	0.09	7.04	1.91	0.60	0.58	-	0.15	0.12	0.08	0.53	0.00	-	-

TABLE A-3
STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1965-66 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-14-65	7- 8-66	30.20
LAKE ALPINE	DEPT OF WATER RESOURCES	7-14-65	7- 8-66	49.30
TUOLUMNE RIVER				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	8- 8-65	8- 3-66	40.41
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	9-12-65	8-16-66	28.47
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9-17-65	8-13-66	37.73
LOWER KIBBEY RIDGE	HETCH HETCHY WATER SUPPLY	8-21-65	8- 9-66	44.15
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	8- 6-65	8-20-66	38.47
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	8-20-65	8-10-66	42.71
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7-13-65	7- 7-66	28.55
MERCED RIVER				
BADGER PASS	U S WEATHER BUREAU	1- 5-66	3-31-66	6.20
OSTRANDER LAKE	NATIONAL PARK SERVICE	8-30-65	4- 1-66	37.40
OSTRANDER LAKE	NATIONAL PARK SERVICE	4- 1-66	7-13-66	-
SNOW FLAT	DEPT OF WATER RESOURCES	7-13-65	7- 7-66	43.90
SAN JOAQUIN RIVER				
CHIQUITA CREEK	DEPT OF WATER RESOURCES	7-12-65	7- 6-66	38.65
CLOVER MEADOWS	DEPT OF WATER RESOURCES	7-12-65	7- 6-66	41.60
KAISER MEADOWS	SO CALIF EDISON COMPANY	7- 7-65	9-12-66	36.39
MAMMOTH POOL	SO CALIF EDISON COMPANY	7-28-65	9- 9-66	29.64
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	7- 8-65	9-14-66	37.04
VERMILION VALLEY	SO CALIF EDISON COMPANY	7- 7-65	9- 8-66	22.48
TULARE LAKE BASIN				
KINGS RIVER				
BARTON FLAT	U S CORPS OF ENGINEERS	9- 7-65	8- 3-66	17.07
DUSY BENCH	U S CORPS OF ENGINEERS	8-27-65	9- 8-66	23.99
MITCHELL MEADOW	U S CORPS OF ENGINEERS	8-10-65	7-17-66	30.66
MORaine CREEK	U S CORPS OF ENGINEERS	8- 4-65	7-18-66	23.94
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	7-15-65	7-14-66	40.08
STATE LAKES	U S CORPS OF ENGINEERS	8- 9-65	10- 6-66	30.67
SUMMIT MEADOW	U S CORPS OF ENGINEERS	7-12-65	7-12-66	39.12
VIDETTE MEADOW	U S CORPS OF ENGINEERS	8- 5-65	9- 6-66	23.89
WOODCHUCK MEADOW	U S CORPS OF ENGINEERS	7-13-65	10- 4-66	40.00
KAWEAH RIVER				
ATWELL	U S CORPS OF ENGINEERS	9-13-65	8- 8-66	24.87
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-10-65	8- 3-66	34.82
HOCKETT MEADOW	U S CORPS OF ENGINEERS	9-15-65	8- 9-66	28.88
MINERAL KING	U S CORPS OF ENGINEERS	9-16-65	8- 8-66	23.17
PEAR LAKE	U S CORPS OF ENGINEERS	7-22-65	8- 4-66	35.50
TULE RIVER				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-29-65	6-23-66	20.18
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-29-65	6-22-66	24.53
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-30-65	6-23-66	23.29
ROGERS CAMP	U S CORPS OF ENGINEERS	6-30-65	6-22-66	21.55

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1965-66 Season		
		Measurement Period		Precipitation In Inches
KERN RIVER				
CHAGOOPA	U S CORPS OF ENGINEERS	7-19-65	8- 6-66	22.00
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9-15-65	9-22-66	19.02
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	9-30-65	6-22-66	23.93
MONACHE MEADOW	U S CORPS OF ENGINEERS	9- 3-65	9- 1-66	8.80
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	GAGE DAMAGED		
QUAKING ASPEN	U S CORPS OF ENGINEERS	6-30-65	6-22-66	26.95
ROUND MEADOW	U S CORPS OF ENGINEERS	6-29-65	6-21-66	25.31
TUNNEL R S	DEPT OF WATER RESOURCES	9- 3-65	9- 1-66	14.70
WET MEADOW	U S CORPS OF ENGINEERS	9-15-65	8-10-66	28.66
TEHACHAPI MTN				
BALLINGER	DEPT OF WATER RESOURCES	7- 1-65	7- 1-66	7.80
BURGESS CORRALS	DEPT OF WATER RESOURCES	7- 1-65	7- 1-66	7.20
SMITH FLAT	DEPT OF WATER RESOURCES	7- 1-65	7- 1-66	9.10
TULARE L BAS WESTSIDE				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-15-65	10-11-66	14.50

- Record missing for this period.

TABLE A-4

TEMPERATURE DATA

The definition of terms and abbreviations used in connection with this table are as follows:

Max	The highest temperature of record for the month.
Min	The lowest temperature of record for the month.
Av Max	The arithmetical average of daily maximum temperatures for the month.
Av Min	The arithmetical average of daily minimum temperatures for the month.
Avg	The arithmetical average of daily maximum and minimum temperatures for the month.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

TABLE A-4
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept.	Oct.	Nov.	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.
SAN JOAQUIN R BASIN SAN JOAQUIN VAL FL CASTLE AFB	MAX	103	98	92	90	74	63	72	85	92	99	106	104	103	100
	MIN	51	56	47	43	34	25	29	29	29	29	47	54	54	48
	AV MAX	93.1	90.7	83.0	82.1	63.0	46.6	53.2	66.9	78.5	84.1	90.1	92.3	95.0	86.9
	AV MIN	61.9	62.9	54.5	51.3	46.1	34.9	37.1	42.5	48.7	54.9	59.4	61.0	63.0	58.3
	AVG	77.5	76.8	68.6	66.7	54.6	40.8	47.1	54.7	63.7	69.5	74.7	76.6	79.0	72.6
DENAIR CHANGE	MAX				RB	73	67	74	96	M	98	106	104	M	M
	MIN				RB	25	25	27	42	M	42	83	50	M	M
	AV MAX				RB	64.9	56.4	59.8	69.6M	M	86.2	89.7M	91.8M	M	M
	AV MIN				RB	44.0	34.3M	36.0	40.2M	M	49.2	53.7M	56.1M	M	M
	AVG				RB	54.4	44.6	47.9	54.9M	M	67.7	71.7M	73.9M	M	M
LIVINGSTON 5 W	MAX	102	100	94	92	83	60	73	85	95	100	106	104	105	100
	MIN	50	51	38	37	31	21	25	25	35	43	40	48	43	40
	AV MAX	93.7	93.1	84.4	83.9	62.2	47.7	53.5	60.0	60.9	67.2	73.0	74.1	75.9	69.5
	AV MIN	76.7	76.8	68.1	63.3	51.4	38.4	43.4	54.0	58.6	67.0	71.8	73.3	75.2	69.7
	AVG	75.2	75.5	68.2	63.7	51.6	40.8	43.4	54.0	63.7	68.1	71.8	73.3	76.0	69.7
LOS BANOS FIELD STA	MAX	102	101	94	90	81	61	65	82	92	97	105	105	105	99
	MIN	52	54	47	41	34	24	23	26	42	47	45	54	51	50
	AV MAX	93.4	92.9	84.9	82.0	65.9	48.0	55.8M	68.0M	78.8	M	89.6M	M	96.8M	86.3M
	AV MIN	58.9	61.7	53.2	50.8	44.9	33.8	29.6M	41.4M	47.5	M	60.0M	M	62.4M	56.9M
	AVG	76.1	77.3	69.0	66.4	55.4	40.9	42.7M	54.7M	63.2	M	79.3M	M	79.6M	71.6M
MODESTO KTRB	MAX	102	99	92	91	77	57	65	74	87	92	106	103	104	98
	MIN	49	55	44	41	31	22	24	27	38	44	45	52	50	46
	AV MAX	92.7	91.5	82.9	81.5	64.8	49.2	57.2	69.6	79.9	83.6	87.8	89.6	94.9	86.6
	AV MIN	58.0	60.1	51.1	48.3	43.8	36.4	34.6	42.4	47.8	51.5	55.7	56.5	59.0	54.4
	AVG	75.3	75.8	67.0	64.9	54.3	42.8	45.9	56.0	63.8	67.6	71.7	73.0	76.9	70.5
SPANISLAUS RIVER	MAX	93	86	92	92	78	72	64	80	82	86	96	96	97	93
	MIN	47	44	32	29	26	17	15	15	27	34	31	36	36	33
	AV MAX	87.1	85.1	74.5	79.9	58.2	51.5	51.4	61.2	69.2	74.2	78.1	85.2	88.2	82.8
	AV MIN	49.1	50.2	40.6	30.6	34.6	26.0	24.3	31.2	36.6	41.2	42.3	47.1	50.9	44.9
	AVG	67.6	67.6	57.6	55.2	46.4	38.8	37.8	46.2	52.9	57.7	60.2	66.1	69.5	63.8
PINECREST STRAWBERRY	MAX	M	80	80	80	74	70	58	M	76	80	88	88	90	86
	MIN	M	28	28	28	20	12	8	M	24	24	30	30	32	25
	AV MAX	M	70	70	70	60.7M	50.5	46.5	M	61	61	70	75	75	70
	AV MIN	M	31.1M	31.1M	31.1M	25.0	21.0	18.0	M	32.8	32.8	40.0	43.1	46.5	48.4
	AVG	M	41.4M	41.4M	41.4M	36.8	36.8	36.8	M	48.4	48.4	55.4	59.0	63.0	65.4

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
STANISLAUS P H	MAX	104	101	95	97	86	68	72	84	87	95	105	104	107	102
	MIN	53	54	43	38	31	24	26	28	29	44	42	44	49	46
	AV MAX	85.4	84.5	86.6	86.7	87.0	85.9	86.2	87.2	86.9	87.4	87.3	87.3	87.4	87.1
	AV MIN	77.7	77.4	76.9	76.2	75.6	74.7	74.5	74.3	74.2	74.9	74.4	74.4	74.3	74.8
	AVG	73.0	78.7	81.4	81.4	81.3	80.3	80.4	80.5	80.5	81.1	80.8	80.8	80.9	80.9
TUOLUMNE RIVER	MAX	103	100	94	97	77	59	71	85	90	97	108	105	106	101
	MIN	48	49	41	37	28	20	22	21	32	39	36	44	48	44
	AV MAX	95.4	94.2	84.1	86.2	85.8M	84.1	84.2	87.8	89.0	84.6	90.3	93.5	98.0M	88.7
	AV MIN	77.4	77.4	76.6	76.4	75.2M	76.8	77.3	76.1	76.1	76.9	76.6	76.4	77.2M	76.6
	AVG	76.4	75.6	80.9M	80.9M	80.5M	80.4	80.5	80.5	80.3	80.3	80.4	80.4	80.4	80.6
MERCED RIVER	MAX	104	104	96	98	84	61	72	88	92	98	108	106	M	RE
	MIN	56	58	48	40	33	27	32	28	40	50	45	54	M	RE
	AV MAX	97.3M	96.4M	86.5	86.3M	84.4	83.8	86.0	86.0	89.1	89.5	91.1	93.2M	102.6M	RE
	AV MIN	63.1M	65.4M	50.7M	50.7M	44.6	36.0	35.2M	36.8	43.7	49.7	58.7	60.7M	65.7M	RE
	AVG	80.2M	80.9M	77.0	76.5M	74.5	64.9	68.0M	68.4	74.9	74.9	74.9	76.9M	84.1M	RE
COULTEVILLE PFS	MAX	101	98	91	93	82	M	M	M	M	M	104	102	104	96
	MIN	51	55	43	40	32	M	M	M	M	M	41	47	42	42
	AV MAX	91.9	91.2M	81.5M	80.8M	M	M	M	M	M	M	M	M	91.0M	96.6
	AV MIN	62.3	63.7M	54.6M	51.4M	M	M	M	M	M	M	M	M	58.4M	64.7
	AVG	77.1	77.5M	78.1M	76.1M	M	M	M	M	M	M	M	M	74.7M	80.6
HORNITOS GILES RCH	MAX	100	98	90	90	77	60	70	83	88	95	104	102	102	98
	MIN	52	54	46	41	34	27	30	26	40	44	45	50	52	46
	AV MAX	82.3	81.7	78.1	78.1	76.4	74.6	76.6	78.5	80.2	81.1	82.1	82.5	82.4	81.4
	AV MIN	62.6	63.8	54.4	57.9	45.4	39.3	37.1	43.0	48.6	52.1	58.6	59.8	65.4	67.5
	AVG	71.5	75.8	67.8	67.0	63.9	60.4	66.3	66.3	72.3	73.0	73.0	75.4	79.9	71.5
FRESNO - CHOWCHILLA R	MAX	94	95	88	92	82	80	72	84	86	88	98	96	98	94
	MIN	60	58	50	44	35	28	30	28	40	50	50	56	58	50
	AV MAX	88.0	88.5	79.0	81.2	84.2	80.4	80.2	81.8	84.8	80.7M	83.5	87.4	91.5	83.6
	AV MIN	77.5	78.2	76.2	77.6	77.2	79.5	78.1	78.1	82.4	80.7M	73.2	76.4	81.0	73.0
	AVG	77.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
BIG CEDAR SPRINGS	MAX	94	92	85	92	78	70	64	73	78	86	95	94	96	M
	MIN	42	50	40	34	26	20	22	19	33	40	38	48	48	M
	AV MAX	87.1	86.6	76.3M	76.8	77.6	75.0	76.0	76.3M	79.6	73.9M	79.6	85.3M	89.5	M
	AV MIN	56.2	58.1	47.1M	45.6	40.8	29.6	28.2	35.0M	39.7	47.2M	51.5	54.6M	58.4	M
	AVG	71.7	72.4	61.7M	61.2	61.2	58.6	58.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
CATHEYS VAL BULL RUN	MAX	101	92	94	80	64	69	71	79	87	43	104	103	103	99
	MIN	49	34	42	34	23	23	27	22	34	49	40	49	45	42
	AV MAX	91.5	82.3	81.5	62.0	48.7	53.6	55.6	64.5	75.6	82.3	88.5	92.6	96.6	86.4
	AV MIN	58.3	50.8	48.1	42.7	31.5	32.4	34.0	40.4	44.4	50.5	55.9	58.2	61.5	54.6
	AVG	76.2	77.2	66.5	64.8	52.3	43.0	44.8	52.4	60.0	66.4	72.2	75.4	79.1	70.6
CATHEYS VAL SAWYER	MAX	104	92	94	80	64	69	70	82	88	96	107	104	105	100
	MIN	49	34	42	34	23	24	26	22	34	41	43	48	49	44
	AV MAX	94.1	83.5	81.5	62.0	48.7	53.6	55.6	64.5	75.6	82.3	88.5	92.6	96.6	86.6
	AV MIN	58.3	50.8	48.1	42.7	31.5	32.4	34.0	40.4	44.4	50.5	55.9	58.2	61.5	54.6
	AVG	76.2	77.2	66.5	64.8	52.3	43.0	44.8	52.4	60.0	66.4	72.2	75.4	79.1	70.6
CATHEYS VAL STORHOUSE	MAX	100	89	88	79	66	68	69	80	85	93	103	100	101	97
	MIN	45	38	31	27	21	21	23	20	30	41	37	46	44	39
	AV MAX	91.1	82.2M	79.3M	61.2	49.8	54.0	56.1	65.4	74.9	80.9	87.7	90.2	93.1	84.1
	AV MIN	54.1	46.3M	42.1M	35.1	28.0	28.0	31.6	39.9	49.8	57.9	63.7	67.2	70.2	61.4
	AVG	72.9	73.7	60.8M	50.2	39.8	41.4	43.6	50.2	57.8	64.1	69.3	72.0	75.7	67.8
HIDDEN VALLEY	MAX	M	M	97	85	67	64	71	78	87	96	106	105	106	102
	MIN	M	M	49	40	34	24	26	24	39	47	44	54	48	65
	AV MAX	M	M	82.8	83.6	62.7	53.9	53.4	63.2	75.4	85.2	90.5	93.7	98.0	89.4
	AV MIN	M	M	56.3	53.6	41.9	34.4	33.6	40.4M	47.4	54.7	56.5	60.5	63.5	55.8
	AVG	M	M	69.6	68.6	52.3	44.2	43.5	51.8M	61.4	70.0	73.5	77.1	80.7	72.6
ONGHURST	MAX	M	85	88	83	76	67	70	79	84	92	M	M	M	M
	MIN	M	29	26	21	17	15	17	16	27	34	M	M	M	M
	AV MAX	M	80.3M	80.7	63.5	58.1	56.4	55.9	64.9	74.9	81.5	M	M	M	M
	AV MIN	M	37.9	33.2	30.6	25.4	22.1	25.2	30.3	35.0	42.1	M	M	M	M
	AVG	M	59.1M	57.0	47.0	41.8	39.2	40.5	47.6	54.9	61.8	M	M	M	M
TRIANGLE - YORK	MAX	86	90	90	69	74	63	66	80	82	87	95	96	98	88
	MIN	30	30	30	27	17	17	18	24	29	31	31	31	31	21
	AV MAX	70.6	70.6	70.6	57.2	50.8	49.8	50.2	60.6	67.5	70.5	76.4	78.7	80.8	70.3
	AV MIN	40.4	41.4	41.4	37.6	28.9	27.4	27.6	38.2M	44.4	47.2	47.5	47.5	49.7	46.7
	AVG	55.2	58.0	58.0	46.6	39.8	38.6	38.9	51.4M	54.9	59.8	64.3	68.2	72.0	63.0
SAN JOAQUIN RIVER	MAX	96	90	92	80	76	68	66	84	83	87	98	98	100	94
	MIN	56	44	38	30	28	22	26	22	30	34	44	48	52	44
	AV MAX	69.6	63.6	63.6	50.6	48.0	43.0	41.5	50.6	57.6	61.9	67.5	70.7	74.4	62.8M
	AV MIN	59.5	53.2	48.2M	39.5	33.0	30.4	31.5	36.9M	41.9	52.2	57.0	60.1	61.1	54.4M
	AVG	75.3	67.5	63.4M	50.0	44.0	42.5	42.3	50.6M	58.8	65.3	70.6	74.4	76.8	69.1M

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
MEADOW LAKE	MAX	93	88	90	74	78	58	62	74	80	86	94	95	97	92
	MIN	56	42	34	34	31	18	21	21	31	38	42	56	51	75
	AV MAX	84.7	73.4	73.4	66.3	64.1M	50.9	51.6	60.2	68.2	73.0	79.6	83.7	89.9	79.7M
	AV MIN	73.9	74.5	65.6	55.6	47.2M	41.3	39.5	49.3	57.9	63.9	68.2	74.2	69.4	58.5M
	AVG	73.9	74.5	65.6	55.6	47.2M	41.3	39.5	49.3	57.9	63.9	68.2	74.2	69.4	58.5M
SAN JOAQUIN WESTSIDE	MAX	106	94	93	93	82	70	68	86	95	101	109	110	109	104
	MIN	51	53	39	39	31	19	23	21	36	40	42	54	53	50
	AV MAX	94.0	84.7	84.6	66.9	66.9	59.8	61.0	68.8	81.5	84.1	89.3	90.6	99.6	89.3
	AV MIN	60.7	61.8	50.6	46.6	42.8	30.0	30.6	34.6	48.2	51.6	57.6	63.6	69.4	61.9
	AVG	77.4	77.9	67.7	65.6	54.8	41.4	43.2	54.2	64.9	68.0	71.5	75.1	82.0	74.9
DEL PUERTO ROAD CAMP	MAX	107	100	90	88	72	62	68	80	86	96	105	103	100	95
	MIN	50	50	40	40	40	24	24	22	32	40	38	44	45	41
	AV MAX	96.9	90.8	80.0	78.8	60.3	53.2	55.4	63.6	75.3	83.3	91.2	93.7	93.4	82.4
	AV MIN	56.8	58.0	48.1	45.6	39.0	32.2	32.7	37.7	43.4	46.8	53.5	53.7	57.9	51.2
	AVG	76.9	74.4	64.1	62.2	49.6	42.7	44.0	50.6	59.3	65.0	72.3	73.7	75.6	66.8
TULARE LAKE BASIN	MAX	104	102	94	93	82	71	83	86	93	103	103	104	105	101
	MIN	53	52	38	34	26	28	27	29	40	49	52	55	56	49
	AV MAX	96.5	95.0	86.1	84.1	65.3M	51.6	63.2	73.2	83.3	91.5M	92.9	95.3	98.9	86.4
	AV MIN	63.8	64.0	53.9	48.8	43.3M	33.4	36.8	44.0	50.8	58.3M	61.3	63.2	64.9	58.1
	AVG	80.2	79.5	70.0	66.5	54.3M	43.4	46.5	50.0	58.6	67.0	74.9M	77.1	79.2	81.9
AVERNAL WALDEN	MAX	105	104	95	94	83	63	67	89	95	100	107	106	107	101
	MIN	60	55	44	44	37	29	31	27	44	51	51	56	54	51
	AV MAX	98.9	98.2	86.8	84.4	65.1M	57.1M	60.1M	72.6	82.9	88.8	93.9	96.6	103.3M	88.8
	AV MIN	68.8	67.2	58.5	54.9	48.7M	35.8M	38.8M	42.8	52.1	58.2	62.1	65.0	70.1M	60.3
	AVG	83.8	82.7	72.6	69.6	56.9M	43.4M	47.6M	57.7	67.5	73.5	78.0	80.8	86.7M	74.5
CARUTHERS 4 E	MAX	103	102	94	97	84	64	76	84	93	100	105	104	105	98
	MIN	53	52	38	39	30	22	26	24	35	40	46	51	47	42
	AV MAX	94.5	95.5M	86.1	83.8	65.8	47.9	53.8	58.6	69.8	76.6	82.6	86.6	91.2	86.6
	AV MIN	78.7	78.7	68.0	63.0	56.9	36.0	48.4	54.1	63.4	68.8	76.6	80.6	86.2	80.6
	AVG	86.6	86.6	77.0M	73.5	61.2	41.4	43.6	54.5	64.0	71.8	78.0	81.7	85.5	78.0
CORCORAN EL RICO I	MAX	106	103	95	95	81	66	80	87	95	100	107	107	110	102
	MIN	52	52	38	34	27	27	29	28	36	41	45	51	49	46
	AV MAX	96.2	95.0	85.2	84.0	64.7	47.9	55.7	60.6	70.6	76.4	81.5	85.6	90.1	88.7
	AV MIN	60.0	60.2	51.9	47.3	34.0	36.2	39.9	46.1	55.7	61.6	68.3	73.6	78.6	61.6
	AVG	78.1	77.6	68.6	65.7	54.7	41.8	44.8	55.2	63.5	68.3	73.6	78.6	80.8	72.5

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT															
	1966															
	July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.	
GOALINGA FEED YARDS	MAX	102	94	92	80	59	64	M	86	95	M	M	M	M	M	M
	MIN	58	45	48	35	29	28	M	29	35	M	M	M	M	M	M
	AV MAX	96.3M	84.5M	83.0M	62.9	48.2	54.2	M	68.0	78.9	M	M	M	M	M	M
	AV MIN	M	76.6M	77.0M	57.1M	40.8M	45.4M	M	33.4	45.2M	M	M	M	M	M	M
AVG	M	76.6M	70.1R	55.0M	43.4R	43.4R	M	33.7	45.2M	M	M	M	M	M	M	
DEVILS DEN SLF	MAX	108	100	99	86	62	65	78	89	96	100	108	110	111	106	
	MIN	54	43	40	34	24	26	28	24	38	46	48	52	50	44	
	AV MAX	99.5	90.4	85.4	65.8	49.3	56.5	62.4	73.1	84.7	88.5	93.9	100.5	101.4	91.3	
	AV MIN	61.5	64.4	55.9	45.7	32.5	31.9	34.4	37.9	49.0	55.4	59.0	61.9	62.0	55.4	
AVG	80.5	81.7	73.2	66.8	55.7	40.9	44.2	48.4	55.5	66.8	71.9	76.4	81.2	81.7	73.3	
DIGIORGI	MAX	106	94	94	87	68	68	70	90	93	100	108	103	102	104	
	MIN	55	44	38	33	25	28	29	28	33	46	46	51	50	46	
	AV MAX	97.8	86.1	80.5	65.7	47.8	55.8	58.8	71.1	82.4	87.0	92.4	94.8	98.3	86.8	
	AV MIN	62.2	62.6	50.4	47.4	44.6	34.0	32.8	36.0	43.8	49.1	53.0	58.0	58.2	61.0	54.6
AVG	80.0	79.5	68.3	63.9	55.1	40.9	44.3	47.4	57.8	65.7	70.0	75.2	76.5	79.6	70.7	
FIVE POINTS DIENER	MAX	104	102	95	94	78	65	76	85	93	101	106	106	105	100	
	MIN	56	55	47	39	36	24	27	28	39	50	47	52	50	49	
	AV MAX	95.3	84.7	77.0	63.0	48.7	32.6	38.8	43.4	48.1	55.2	61.5	68.1	64.0	57.6	
	AV MIN	69.9	64.7	54.3	43.8	35.7	26.6	30.8	31.2	38.9	45.5	51.5	58.5	60.3	57.6	
AVG	79.6	79.8	69.8	66.9	54.9	41.8	45.3	47.8	56.6	65.1	71.4	75.0	77.2	80.9	72.4	
FRESNO CO WESTSIDE ED	MAX	107	106	98	97	84	64	76	84	96	100	109	109	110	104	
	MIN	54	54	44	40	34	24	27	24	38	43	42	52	48	45	
	AV MAX	98.1	88.0	85.9	84.4	66.1	49.8	60.0	69.2M	82.2	87.8	86.6M	96.9	101.7	89.2	
	AV MIN	62.9	64.0	52.7	50.0	46.0	34.0	33.4	36.5	48.3	53.8	54.5M	62.5	64.5	57.5	
AVG	80.5	81.0	69.3	67.2	56.0	41.9	44.2	48.2	59.6M	65.2	70.8	76.6M	79.7	83.1	73.4	
HANFORD WELL #21	MAX	103	102	94	97	78	67	76	86	96	100	106	104	108	100	
	MIN	54	52	41	42	33	22	23	28	38	47	46	52	50	47	
	AV MAX	95.4	85.1	85.9	85.2	66.4	49.7	56.4	60.9	69.8	81.2	86.0	94.1	95.2	88.1	
	AV MIN	61.7	60.8	51.5	47.4	43.4	34.2	32.5	38.3	42.4	47.8	53.9	58.4	61.4	54.9	
AVG	78.6	78.0	68.7	66.3	54.9	42.0	44.4	49.6	56.1	64.6	69.9	74.4	76.2	78.3	71.5	
IVANHOE I	MAX	104	103	96	95	84	66	78	86	95	101	108	106	106	101	
	MIN	56	56	46	42	36	26	28	39	48	56	64	72	70	64	
	AV MAX	96.2	86.1	82.7	82.9	66.8	50.2	57.6	59.0	70.9	88.6	92.8	94.9	100.2	90.6	
	AV MIN	62.2	63.0	53.0	47.5	45.0	33.1	32.9	35.0	42.5	50.9	55.1	58.0	59.7	62.4	54.3
AVG	79.2	79.3	69.3	65.2	55.9	41.6	45.1	47.0	56.7	67.4	71.8	75.4	78.3	81.3	72.4	
KETTLEMAN HILLS	MAX	106	105	M	99	81	62	71	85	90	116	113	105	106	99	
	MIN	57	57	M	34	34	28	30	36	35	35	34	55	58	53	
	AV MAX	95.0	96.6	M	83.0M	60.9	48.3M	54.7	61.4	72.0	85.7	85.0	88.3	93.2	94.2	85.6
	AV MIN	62.4	62.4	M	55.0M	44.8	31.4M	38.5	45.8	53.2	62.2	67.8	75.0	77.8	69.4	75.9
AVG	84.1	86.1	M	69.0M	52.8	39.5M	46.6	51.3	58.9	69.4	73.6	78.0	81.3	84.9	75.8	

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT															
	1966															
	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept	
MAGUNDEN	MAX	103	103	94	96	67	59	69	90	94	104	109	108	109	104	104
	MIN	44	44	36	41	36	36	36	30	30	M	M	M	46	46	44
	KITV MAX	98.3	97.7	86.1	84.8	67.4	50.1	59.8	75.9	82.8	87.7	94.1	98.3	101.2	98.3	89.9
	AV MAX	66.8	68.9	59.1	52.5	37.5	36.8	35.3	38.3	44.5	53.3	63.6	65.8	68.8	65.8	61.1
	AVG	82.6	83.3	72.1	68.7	57.4	43.4	46.2	49.0	60.2	68.0	78.8	82.0	85.0	85.0	75.0
MENDOTA MURRIETA FARM	MAX	105	101	95	91	M	M	M	M	M	M	M	105	104	98	98
	MIN	50	51	43	41	M	M	M	M	M	M	M	42	50	44	44
	AV MAX	85.3M	93.8	85.0M	82.2M	M	M	M	M	M	M	M	87.0	96.6	87.0	87.0
	AV MIN	58.7M	50.5	50.0M	47.6M	M	M	M	M	M	M	M	56.5	57.4	59.6	54.1
	AVG	72.0M	77.2	68.1M	64.9M	M	M	M	M	M	M	M	73.7	75.6	78.1	70.5
NORTH BELTRIDGE	MAX	104	104	96	95	83	63	67	86	95	99	107	107	108	101	101
	MIN	62	62	54	46	36	30	31	29	43	52	47	59	58	58	55
	AV MAX	96.9	98.6	86.0	83.4	65.6	48.1	54.7	70.3M	81.6	85.6	92.3	96.2	99.5	88.4	88.4
	AV MIN	69.4	71.3M	60.0	56.9	48.5	35.7	37.5	44.3M	53.3	58.7	64.0	68.4	70.5	62.2	62.2
	AVG	83.2	84.7M	73.0	70.2	57.0	41.9	46.1	48.6	57.3M	67.4	72.2	78.1	82.4	85.0	75.3
OLD RIVER 3 S	MAX	105	101	91	94	81	67	77	96	90	100	106	103	103	99	99
	MIN	54	52	43	38	32	28	27	28	30	32	40	46	46	47	47
	KITV MAX	94.8	93.1	83.1	81.2	64.1	54.6	58.5	69.7	80.0	82.9	91.2	94.8	92.8	87.5	87.5
	AV MAX	61.6	61.0	51.1	48.1	41.7	33.2	31.9	34.7	41.1	46.6	52.6	58.2	60.1	61.9	55.5
	AVG	78.3	78.5	67.6	65.7	54.6	41.8	44.4	47.9	56.6	63.3	68.2	74.7	77.4	79.4	71.5
RECTOR	MAX	103	100	94	95	85	66	78	87	92	102	106	104	106	99	99
	MIN	55	50	45	42	32	26	27	30	27	40	47	46	51	44	44
	AV MAX	95.0	94.7	82.3	84.0	65.2	46.7	54.8	60.0	71.0	82.3	87.1	91.9	94.8	97.7	88.4
	AV MIN	61.5	62.1	52.8	47.4	44.0	37.0	33.9	35.8	42.2	48.8	53.7	58.1	59.6	60.6	55.3
	AVG	78.3	78.5	67.6	65.7	54.6	41.8	44.4	47.9	56.6	63.5	70.4	75.0	77.2	79.1	71.8
RIVERDALE	MAX	105	101	91	94	81	64	67	87	93	98	105	106	106	100	100
	MIN	54	52	43	38	32	28	27	28	36	46	47	52	49	47	47
	AV MAX	94.8	93.1	83.1	81.2	64.1	54.6	56.2M	71.8	83.0	85.1	89.9	94.9	97.2	87.7	87.7
	AV MIN	61.6	61.0	51.1	48.1	41.7	33.2	31.2	33.6	41.7	48.9	54.0	57.1	58.4	60.6	54.8
	AVG	78.2	77.1	67.1	64.6	52.9	40.5	42.9	44.9M	56.7	65.9	69.5	73.5	76.6	78.9	71.2
SANGER 1 NE	MAX	104	103	93	93	81	65	69	88	93	99	108	107	107	101	101
	MIN	54	53	45	43	36	30	29	30	33	41	49	50	50	46	46
	KITV MAX	94.6	93.6	83.1	81.2	64.6	54.6	58.5	69.7	80.0	82.9	91.2	94.8	92.8	87.5	87.5
	AV MAX	61.6	61.0	51.1	48.1	41.7	33.2	31.9	34.7	41.1	46.6	52.6	58.2	60.1	61.9	55.5
	AVG	79.1	77.8	69.2	65.7	55.9	44.4	45.7	49.5	56.1	65.3	71.0	75.8M	77.2	80.2	72.4
SOUTH BELTRIDGE	MAX	105	107	96	97	88	68	78	90	96	102	107	106	109	104	104
	MIN	57	62	49	42	32	24	28	29	29	45	51	52	55	53	53
	AV MAX	98.4	99.8	88.6	86.3	67.8	50.2	58.0	61.9	73.3	85.0	87.9	91.8	95.8	100.7	90.7
	AV MIN	68.5	68.2	58.1	53.6	45.2	33.6	35.0	37.3	42.1	52.6	65.8	68.2	69.9	61.7	61.7
	AVG	83.5	84.0	73.3	70.0	56.5	41.9	46.5	49.6	57.7	68.8	73.4	78.8	82.5	85.3	76.2

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.
SOUTH LAKE FARMS HDO	MAX	103	105	94	92	82	56	66	86	92	100	106	106	109	101
	MIN	54	55	41	37	34	24	24	26	34	43	44	46	59	46
	AV MAX	74.0	96.4	85.0	80.9	64.9	47.9	55.8	59.5	73.2	81.9	92.3	96.0	106.0	88.4
	AV MIN	61.8	62.4	52.1	46.4	43.3	33.7	33.4	41.3	45.7	55.3	56.3	58.8	62.1	56.5
	AVG	67.9	79.4	68.6	63.6	54.1	40.6	46.7	55.4	63.4	69.6	74.3	77.4	81.0	72.4
TRANQUILLITY GLOTZ	MAX	103	100	96	90	74	60	64	84	90	100	108	108	106	101
	MIN	55	54	48	42	34	22	24	25	27	33	44	44	44	50
	AV MAX	93.3	92.7	84.6	81.0	63.3	49.8	51.6	58.4	69.3	78.3	87.3	87.3	97.4	87.7
	AV MIN	63.0	63.3	55.0	50.9	43.5	37.0	33.1	36.4	44.6	49.9	57.0	57.0	63.0	71.5
	AVG	79.1	78.0	69.8	66.0	53.4	42.4	42.3	47.4	57.0	64.1	72.6	72.6	80.2	72.6
TULARE	MAX	106	106	96	90	87	56	68	78	96	102	109	107	108	102
	MIN	55	57	48	43	32	24	28	30	41	49	47	54	53	46
	AV MAX	72.6	97.6	83.3	85.3	65.6	46.9	54.9	60.4	72.9	88.8	93.5	96.3	100.3	90.7
	AV MIN	62.4	63.2	52.7	48.4	45.0	35.7	34.0	36.6	42.9	54.4	59.2	60.8	62.9	56.3
	AVG	80.0	80.4	70.1	65.9	55.3	41.3	44.4	48.5	57.9	66.9	71.6	76.4	78.5	81.6
U S COTTON FIELD STN	MAX	101	101	93	83	83	63	66	77	86	92	101	105	105	100
	MIN	56	58	48	40	34	24	26	29	38	45	60	60	65	49
	AV MAX	94.5	94.5	84.0	82.6	64.8	48.4	53.2	56.8	68.3	81.1	85.5	90.9	94.2	87.7
	AV MIN	63.7	64.7	56.9	50.0	45.2	36.4	33.2	36.8	42.6	50.7	55.6	60.2	63.1	65.0
	AVG	79.1	79.6	69.9	66.3	55.2	41.4	44.3	47.9	56.4	65.9	70.6	75.6	78.6	81.5
VESTAL	MAX	104	101	96	96	87	62	71	78	88	95	104	108	105	102
	MIN	58	61	52	42	36	27	30	32	42	44	50	58	58	50
	AV MAX	96.2	96.4	86.3	86.3	68.9	51.2	58.0	62.0	72.6	83.9	88.4	93.3	92.3	87.8
	AV MIN	67.5	68.1	59.6	55.6	49.4	39.0	38.1	40.0	45.0	50.0	58.0	63.1	63.1	60.4
	AVG	81.9	82.3	73.0	71.0	59.1	45.1	48.0	51.2	58.6	66.9	73.2	78.5	80.3	83.4
WEST CAMP SLIP	MAX	104	107	102	99	88	59	66	78	86	98	106	108	108	102
	MIN	59	61	54	40	30	25	24	30	38	46	48	48	48	44
	AV MAX	98.4	100.1	93.7	85.6	66.7	49.3	56.8	62.2	73.0	84.4	94.0	94.0	94.0	88.4
	AV MIN	63.6	64.1	59.2	49.4	44.2	34.8	32.8	34.8	37.9	49.0	55.7	58.4	58.4	58.4
	AVG	81.0	82.1	76.4	67.5	56.4	41.9	44.8	48.5	55.4	67.0	72.0	76.2	76.2	76.2
KINGS RIVER	MAX	104	105	94	97	85	60	65	75	84	92	108	108	109	102
	MIN	52	52	44	36	29	25	24	29	28	39	44	42	48	44
	AV MAX	97.1	98.1	86.7	85.1	66.1	50.4	55.5	58.7	69.1	81.4	87.2	93.0	98.1	90.7
	AV MIN	59.2	61.6	51.4	46.1	42.4	33.2	35.6	40.9	48.0	52.8	55.6	59.1	61.1	53.8
	AVG	78.2	79.8	69.1	65.6	54.2	41.8	43.3	47.2	55.0	64.7	70.0	74.3	78.6	81.3

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept
PINEHURST R S	MAX	92	85	88	76	M	68	63	74	75	83	93	91	93	88
	MIN	52	41	32	27	M	20	23	18	31	32	40	51	50	42
	AV MAX	83.3	73.6M	76.5	M	53.2M	M	58.8M	66.6M	72.6	78.2	83.2	83.2	86.5	79.4
	AV MIN	60.1	50.7	50.8	M	30.8M	M	37.3M	44.1M	51.0	55.6	59.7	59.7	63.6	55.3
AVG	71.7	72.2	62.2M	63.7	M	42.0M	M	48.0M	55.3M	61.8	66.9	71.4	75.0	67.3	
KAWEAH RIVER	MAX	101	93	94	85	59	66	75	83	93	99	107	104	105	98
	MIN	55	52	42	34	27	29	32	32	40	45	45	53	53	49
	AV MAX	94.2	84.1	82.9	66.9	49.1	55.1	58.2	68.6	80.5	85.1	90.2	94.3	97.7	87.5
	AV MIN	63.2	64.6	54.1	46.8	35.4	37.8	45.0	53.3	56.7	59.8	63.2	66.2	66.2	57.3
AVG	78.7	79.7	69.6	68.5	56.8	42.2	45.5	48.0	56.9	70.9	75.0	78.7	81.9	72.4	
WHEATKER FOREST	MAX											RB	RB	RB	88
	MIN											RB	RB	RB	41
	AV MAX											RB	RB	RB	50.9
	AV MIN											RB	RB	RB	50.0
AVG											RB	RB	RB	65.0	
TULE RIVER	MAX	103	105	95	94	85	66	76	85	92	100	108	105	105	100
	MIN	56	56	51	43	36	27	32	29	29	47	45	55	52	46
	AV MAX	95.2	95.8	85.1	83.9	67.7	49.5	55.9	58.4	69.5	81.4	86.2	91.0	95.4	88.3
	AV MIN	63.3	64.4	56.4	47.3	34.6	34.2	36.4	43.2	51.4	55.4	59.5	59.5	61.9	58.5
AVG	79.3	80.1	70.8	68.3	57.5	42.0	45.0	47.4	56.4	66.4	70.8	75.2	78.6	73.4	
GREENHORN MOUNTAIN	MAX	101	100	95	95	85	64	73	80	88	98	107	102	103	99
	MIN	50	50	41	34	M	21	25	22	22	40	41	47	46	43
	AV MAX	96.2	94.7	85.1	84.2	66.2	54.1M	55.7	64.6M	77.6	84.8	91.0M	94.3	96.6	86.8
	AV MIN	60.0	61.2	50.1	48.2	M	31.8M	33.4	34.5	41.0M	48.2	52.5	56.7M	59.9	64.2
AVG	78.2	78.0	67.6	66.2	M	43.0M	44.5	45.1	52.8M	62.9	68.6	73.8M	77.1	80.4	
WOODY	MAX	100	103	95	97	85	67	75	87	92	94	102	102	105	99
	MIN	50	50	42	33	28	21	20	24	34	44	48	50	54	43
	AV MAX	94.1	93.6	83.2	83.8	63.9	54.1	54.4	65.9	77.1	84.0	87.4	94.1	97.0	89.2
	AV MIN	60.0	60.4	50.4	45.0	40.8	33.5	29.2	31.7	37.9	44.3	52.4	60.9	63.2	55.2
AVG	77.1	77.0	66.8	64.4	52.3	43.8	41.8	43.4	51.9	60.7	68.2	72.8	77.5	72.2	
KEEN RIVER	MAX	100	103	95	97	85	67	75	87	92	94	102	102	105	99
	MIN	51	50	42	33	28	21	20	24	34	44	48	50	54	43
	AV MAX	94.1	93.6	83.2	83.8	63.9	54.1	54.4	65.9	77.1	84.0	87.4	94.1	97.0	89.2
	AV MIN	60.0	60.4	50.4	45.0	40.8	33.5	29.2	31.7	37.9	44.3	52.4	60.9	63.2	55.2
AVG	77.1	77.0	66.8	64.4	52.3	43.8	41.8	43.4	51.9	60.7	68.2	72.8	77.5	72.2	

TABLE A-4 (Cont.)
TEMPERATURE DATA
SAN JOAQUIN VALLEY

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept
TEHACHAPI MOUNTAINS CUMMINGS VALLEY	MAX	95	87	98	78	68	66	64	67	96	102	94	90	92	91
	MIN	34	35	28	20	15	2	16	10	22	31	31	38	36	28
	AV MAX	63.4	45.7	37.5	31.5	27.5	23.8	20.8	22.0	31.3	38.3	47.0	52.6	55.2	48.1
	AV MIN	63.5	64.6	56.3	55.2	50.0	38.0	38.6	45.6	54.0	56.8	60.6	63.6	66.2	60.4
	AVG														
KEENE	MAX	95	88	92	83	75	64	65	79	84	93	98	95	97	95
	MIN	40	43	28	27	29	22	24	25	33	36	33	47	46	39
	AV MAX	87.3	86.9	77.6	78.2	58.4	54.5	53.8	62.0	73.1	79.4	83.0	88.2	89.6	82.0
	AV MIN	51.5	56.1	42.8	48.8	41.8	28.9	29.5	36.9	43.3	48.7	51.8	56.8	57.2	51.2
	AVG	69.4	71.5	60.2	63.5	50.1	46.4	41.7	49.4	58.2	64.0	67.4	72.5	73.4	66.6
TULARE L. BAS WESTSIDE	MAX	103	100	99	94	74	61	70	85	90	98	105	108	104	100
	MIN	54	59	51	45	37	32	35	34	45	40	38	53	52	54
	AV MAX	93.9	93.6	83.2	81.5	62.2	53.4	55.0	67.9	79.0	83.2	86.4	91.3	96.6	86.7
	AV MIN	68.1	68.5	59.2	59.2	49.1	36.2	38.8	41.0	47.0	57.0M	59.4	63.6	70.2	62.3
	AVG	81.0	81.1	71.4	70.3	55.6	41.4	46.1	48.0	57.4	66.4	70.1M	72.9	77.4	83.4
TAFT KTYR RADIO	MAX	103	100	93	94	85	63	75	82	91	100	106	105	106	100
	MIN	56	57	48	39	33	30	30	31	44	49	47	56	54	59
	AV MAX	93.9	93.5M	83.3	81.9	65.5	49.4	54.1	56.5	63.2M	65.2	69.8	74.5	78.6	85.1
	AV MIN	65.3	65.7M	54.8	57.1	44.9	31.4	34.2	36.8	43.6M	53.8	56.8	62.6	65.7	69.4
	AVG	79.6	79.6M	69.1	66.5	55.2	40.4	44.1	46.6	53.4M	66.2	71.2	76.2	80.1	84.0

TABLE A-5
EVAPORATION DATA

The definition of terms and the abbreviations used in connection with this table are as follows:

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

TABLE A-5 (Cont.)
 EVAPORATION DATA
 SAN JOAQUIN VALLEY

Station Name	Wind in Total Miles												Total Oct 1 To Sept 30			
	Evaporation in Inches						Water Temperature in Degrees Fahrenheit									
	1965						1966									
Total July To June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
KERN RIVER	EVAP	11.50	10.47	8.29	6.32	2.30	1.43	2.09	2.29	4.72	7.74	11.12	12.56	14.23	14.08	9.59
	WIND	21370	1670	1320	1180	1241	1422	1422	1677	2165	1998	2633	2801	2435	2501	2212
	AV MIN	62.4	62.4	52.7	48.3	43.3	36.8M	35.7M	37.2	41.0M	48.8	53.3	56.5	58.9	60.3	55.0
TEHACHAPI MTN	EVAP	11.17	9.74	7.74	6.50	3.21	3.30	4.50	2.45	5.50	8.22	10.31	10.66	12.28	11.74	8.54
	WIND	30818	1820	1780	1600	2040	2800	3730	3910	3270	2940	2561	2377	2232	2080	2209
	AV MIN	62.4	62.4	52.7	48.3	43.3	36.8M	35.7M	37.2	41.0M	48.8	53.3	56.5	58.9	60.3	55.0
TULARE L BAS WEST-111	EVAP	15.07	13.49	9.90E	7.91	3.17	1.30	2.25	2.46	5.71	10.08	12.52	13.83	14.78	15.01	10.90
	WIND	15600	1120	1300	1260	1270	1150	1270	1090	1320	1570	1550	1530	1220	1160	992
	AV MIN	62.4	62.4	52.7	48.3	43.3	36.8M	35.7M	37.2	41.0M	48.8	53.3	56.5	58.9	60.3	55.0

APPENDIX B
SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1966 water year, which is from October 1, 1966 to September 30, 1966. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, additions and discontinuations, corrections and revisions to previously published reports, and discharge measurements at miscellaneous sites.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B

SAN JOAQUIN RIVER BASIN

- B0 - San Joaquin Valley Floor
- B3 - Stanislaus River
- B4 - Tuolumne River
- B5 - Merced River
- B6 - Fresno-Chowchilla Rivers
- B7 - San Joaquin River
- B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

- C0 - Tulare Lake Valley Floor
- C1 - Kings River
- C2 - Kaweah River
- C3 - Tule River
- C4 - Greenhorn Mountains
- C5 - Kern River
- C6 - Tehachapi Mountains
- C7 - Tulare Lake Basin on West Side

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT AND CREST STAGES

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	Daily Mean Discharge ^{1a}	Daily Mean Gage Height and Crest Stages
Bean Creek near Coulterville	83	
Bear Creek below Bear Reservoir	77	
near Cacheys Valley	76	
near Cacheys Valley	63	
Big Creek Diversion near Fish Camp	117	
Buena Vista Creek near Taft	79	
Burns Creek below Burns Reservoir	78	
at Hornitos	107	
Campbell-Moreland Ditch above Porterville		136
Chowchilla River near Raymond	67	
East Fork near Ahwahnee	69	
Middle Fork near Nipinnawasee	68	
West Fork near Mariposa	102	
Cross Creek below Lakeland Canal #2	60	
Delta-Mendota Canal near Tracy	61	
to Mendota Pool	57	
Deer Creek at Terra Bella Irrigation District	93	
Dry Creek near Modesto	71	
Eastside Bypass near El Nido	57	
Elk Bayou near Tulare	64	
Fresno River, Lewis Fork near Oakhurst	103	
Friant-Kern Canal Delivery to Porter Slough	104	
to Tule River	113	
Hubbs-Miner Ditch at Porterville	116	
Kern River near Bakersfield	101	
Kings River, South Fork below Empire Weir #2	72	
Mariposa Bypass near Crane Ranch	72	
Mariposa Creek near Cacheys Valley	73	
below Mariposa Reservoir	138	
Maxwell Creek at Coulterville	86	141
Merced River at Cressey	85	140
near Livingston		142
North Fork near Coulterville	82	
Miami Creek near Oakhurst	65	
Millerton Slough	57	
Daily Content	87	
Orestimba Creek near Cross Landing	75	
Owens Creek below Owens Reservoir	103	
Panache Drain near Dos Palos	112	
Poplar Ditch near Porterville	108	
Porter Slough at Porterville	110	
near Porterville	109	
Porter Slough Ditch at Porterville	114	
Rhodes-Fine Ditch near Porterville	88	144
San Joaquin River at Cross Landing Bridge	66	
near Dos Palos		139
at Fremont Ford Bridge	59	135
below Friant	89	146
at Grayson	99	
at Hatch Hetchy Aqueduct Crossing	96	154
at Maze Road Bridge	62	
near Mendota		143
near Newman		145
at Patterson Bridge		137
above Sand Slough	80	138
near Stevinson	100	159
near Vernalis		147
at West Stanislaus I. D. Intake		158
Stanislaus River at Koetitz Ranch	99	
near Mouth	97	155
at Orange Blossom Bridge		157
at Ripon	98	156
at Riverbank	70	
Striped Rock Creek near Raymond		134
Tulare Lake	106	
Tule River below Porterville	105	
North Fork at Springville	92	150
Tuolumne River at Hickman Bridge	90	148
at La Grange Bridge		152
at Modesto		149
at Roberts Ferry Bridge	91	153
Vandalia Ditch near Porterville	111	
Woods-Central Ditch near Porterville	115	
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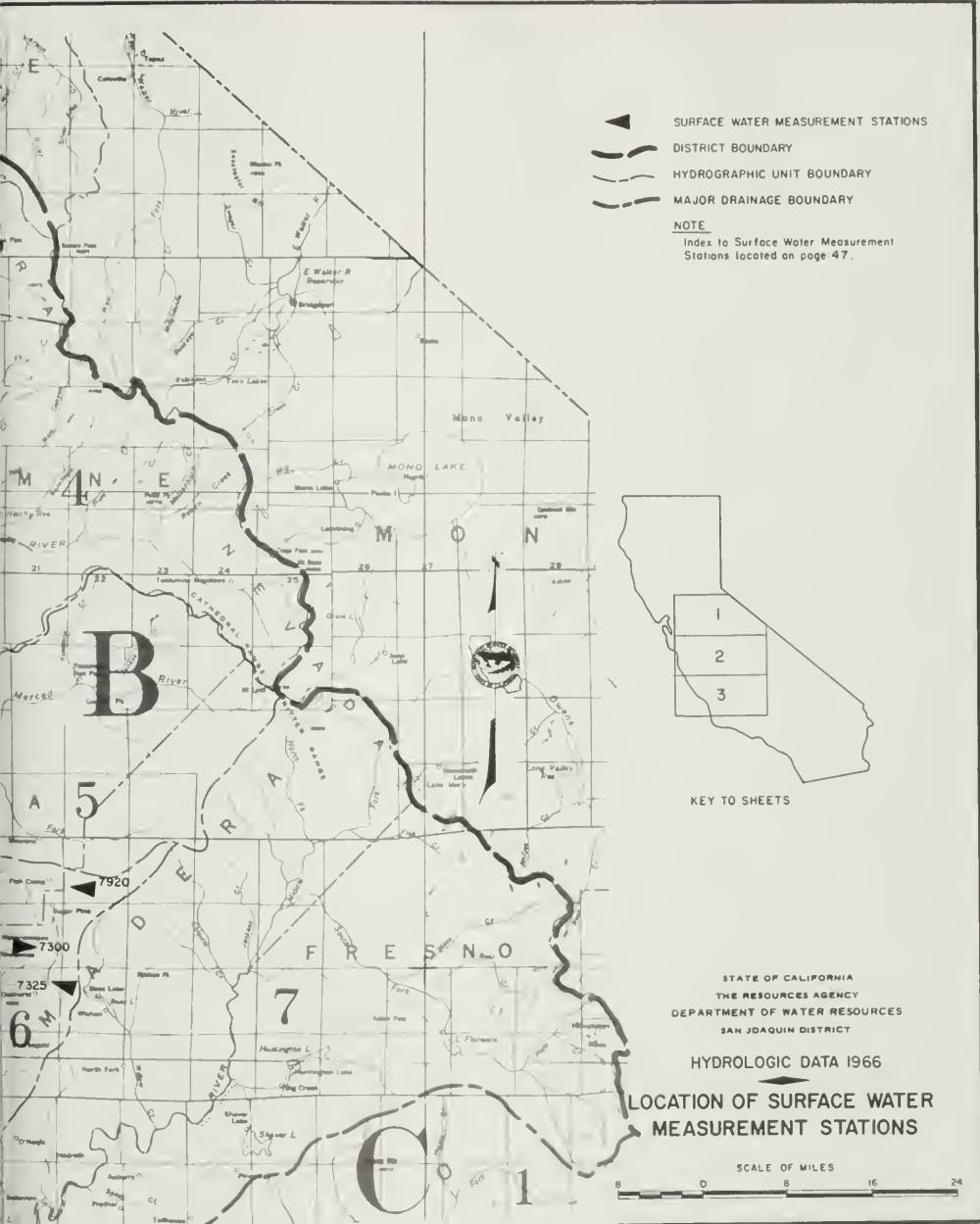
HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS

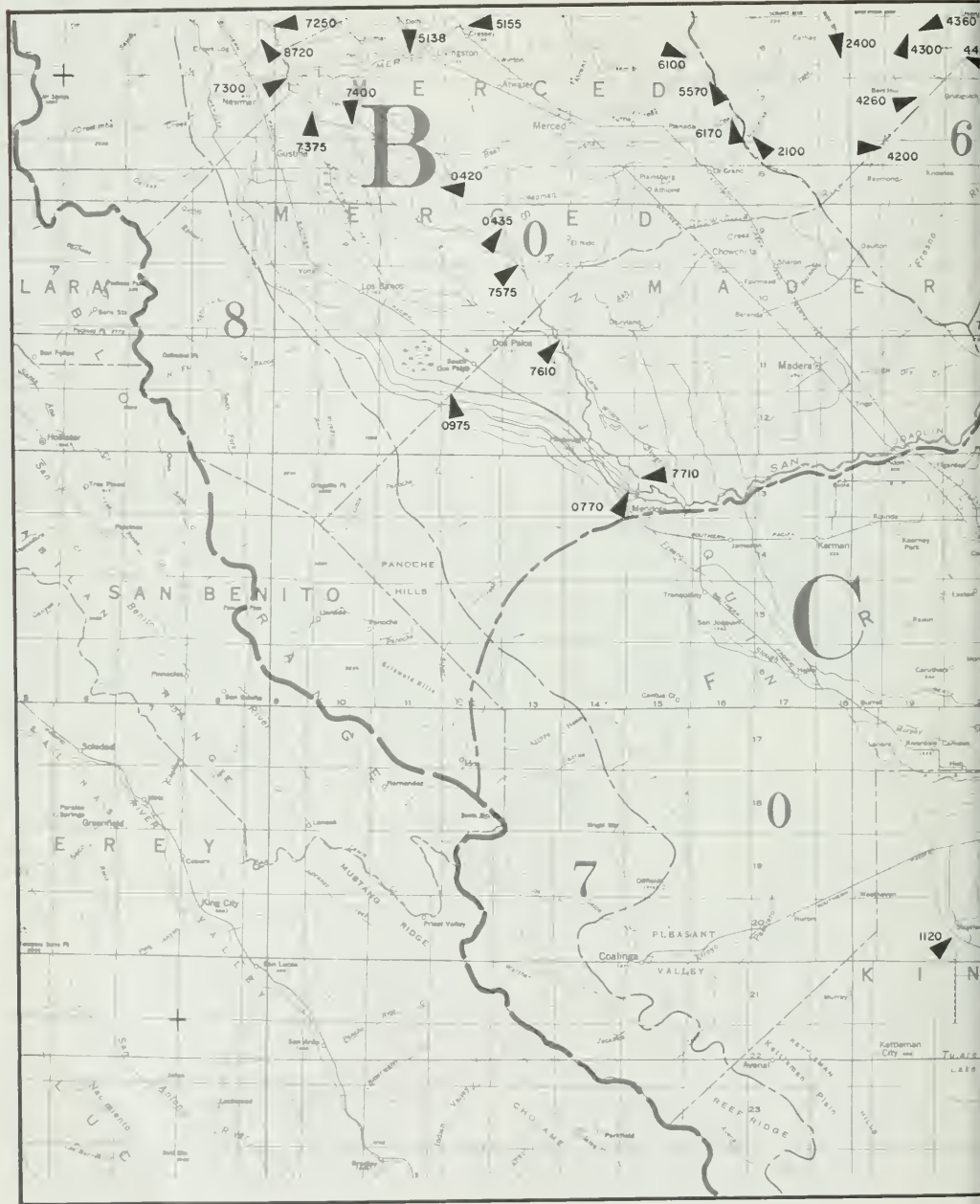
Station
Number

Flow

Station Number	HYDROGRAPHIC AREA	Flow	
		Mean Discharge	Peak, Mean Gage Height and Crest Stage
SAN JOAQUIN VALLEY FLOOR			
B0420	Mariposa Bypass near Crane Ranch	4	
0430	Eastside Bypass near El Nido	1	
3774	Delta-Mendota Canal to Mendota Pool	61	
0175	Panoche Drain near Dos Palos	61	
3170	Stanislaus River near Mouth	7	
3110	at Koeltitz Ranch	93	100
3125	at Ripon	7	107
3145	at Riverbank	7	100
3175	at Orange Blossom Bridge	97	100
4105	Tuolumne River at Tuolumne City	74	100
4120	at Modesto		102
4130	Dry Creek near Modesto	83	101
4150	Tuolumne River at Hickman Bridge	32	109
4165	at Roberts Ferry Bridge	91	149
4175	at La Grange Bridge	91	148
5138	Merced River near Livingston		142
5155	at Cresssey		141
5170	below Snelling		140
5570	Bear Creek below Bear Reservoir		
6170	Owens Creek below Owens Reservoir		
7020	San Joaquin River near Verndis	10	100
7040	at Maze Road Bridge	10	104
7060	at Hetch Hetchy Aqueduct Crossing	96	
7070	at West Stanislaus I. D. Intake		147
7080	at Grayson	89	146
7200	at Patterson Bridge		143
7250	at Crows Landing Bridge		144
7300	near Newman		143
7375	at Fremont Ford Bridge		139
7400	near Stevanson		138
7575	above Sand Slough		130
7610	near Dos Palos	62	
7710	near Mendota	59	
7885	below Friant	59	130
8720	Orestimba Creek near Crows Landing	57	
MERCED RIVER			
B51250	Maxwell Creek at Coulterville	4	
2500	Bear Creek near Coulterville	3	
2600	Merced River, North Fork, near Coulterville	2	
5400	Bear Creek near Catheys Valley	6	
6100	Burns Creek below Burns Reservoir	79	
6400	at Hornitos	78	
FRESNO - CHOWCHILLA RIVERS			
B62170	Mariposa Creek below Mariposa Reservoir	50	
2400	near Catheys Valley	2	
4200	Chowchilla River near Raymond	76	136
4260	Striped Rock Creek near Raymond	6	
4300	Chowchilla River, West Fork, near Mariposa	6	
4360	Middle Fork, near Nipinnawasee	69	
4400	East Fork, near Ahwahnee	6	
7300	Miami Creek near Oakhurst	6	
7325	Fresno River Lewis Fork near Oakhurst	64	
7920	Big Creek Diversion near Fish Camp	63	
SAN JOAQUIN RIVER			
B71100	Millerton Lake at Friant, Daily Content		
1121	Daily Inflow		
SACRAMENTO - SAN JOAQUIN DELTA			
B95925	Delta-Mendota Canal near Tracy	60	
HYDROGRAPHIC AREA C			
TULARE LAKE VALLEY FLOOR			
C01120	Kerns River, South Fork, below Empire Weir #2	11	
2602	Cross Creek below Lakeland Canal #2	214	104
3110	Tulare Lake		
3130	Elk Bayou near Tulare	50	
3169	Tule River below Porterville	100	
3182	Porter Slough at Porterville	100	
3187	near Porterville	100	
3913	Friant-Kern Canal Delivery to Porter Slough	100	
3923	to Tule River	100	
3925	Hubbs-Miner Ditch at Porterville	100	
394	Rhodes-Fine Ditch near Porterville	100	
3948	Woods-Central Ditch near Porterville	100	
396	Poplar Ditch near Porterville	100	
3965	Vandalia Ditch near Porterville	100	
3970	Campbell-Moreland Ditch above Porterville	100	
3984	Porter Slough Ditch at Porterville	100	
515	Kern River near Bakersfield	100	
5120	Buena Vista Creek near Taft	100	
TULE RIVER			
C32100	Tule River, North Fork, at Springville	100	
5170	Deer Creek at Terra Bella I. D.	100	









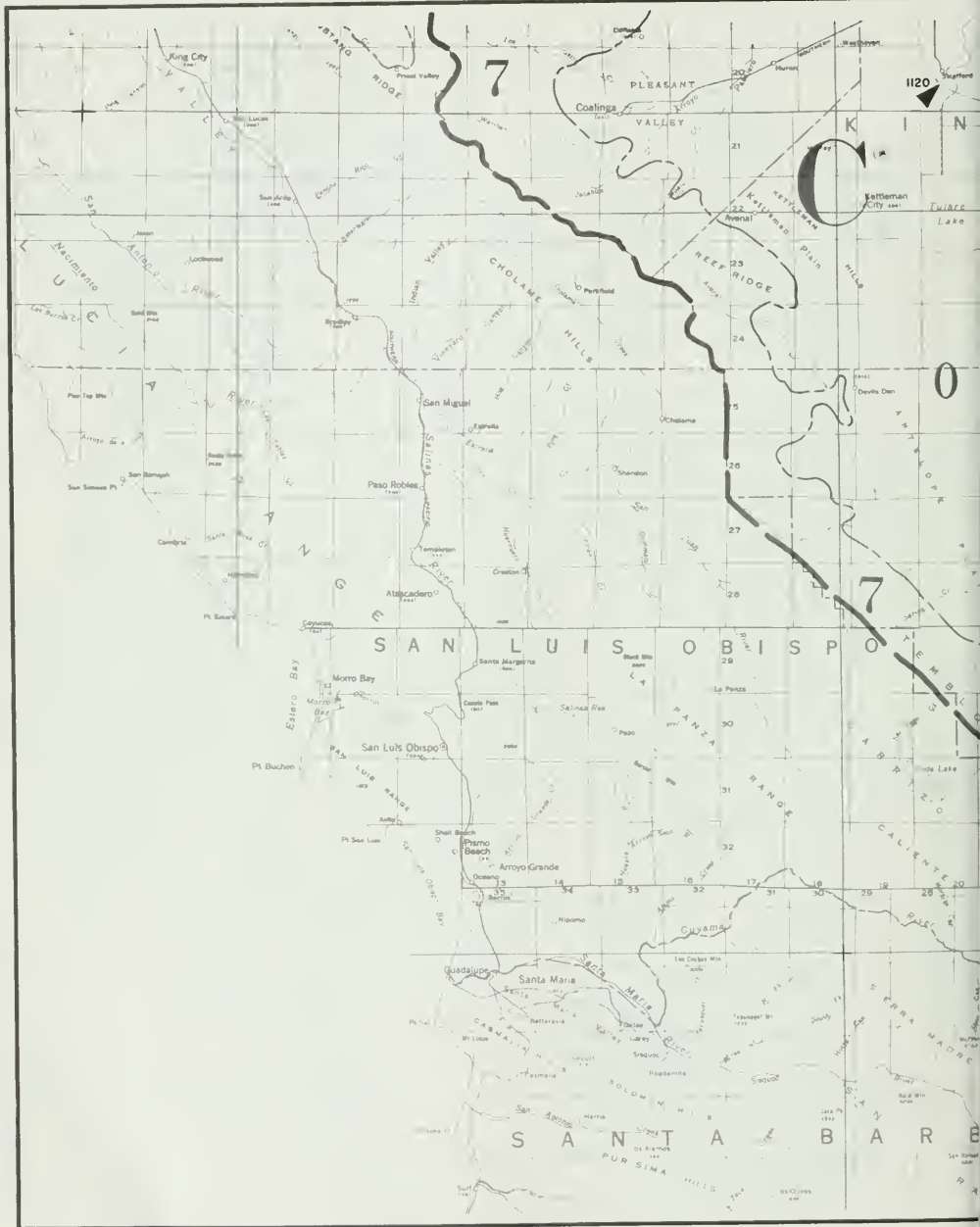




TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1915 through September 1965.

TABLE 8-1
ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Merced River Inflow to Isabella
Average Annual Runoff (a)	1057	1741	897	1617	5312	1530	983	124	604
1925-26	57	64	68	72	66	68	57		
1926-27	129	118	121	124	122	130	126		
1927-28	90	88	82	71	82	63	53		
1928-29	49	56	54	53	54	56	58		
1929-30	69	66	57	53	61	56	57		
1930-31	30	35	29	30	31	30	30	20	31
1931-32	128	121	124	127	125	136	136	112	115
1932-33	58	64	57	69	63	77	74	65	71
1933-34	40	47	40	43	43	43	34	16	38
1934-35	115	121	131	119	121	106	93	72	76
1935-36	125	125	128	115	122	123	127	138	124
1936-37	105	115	135	137	123	153	177	247	183
1937-38	193	197	232	228	212	214	227	287	213
1938-39	50	57	53	57	55	64	65	67	75
1939-40	133	128	122	116	124	117	134	170	115
1940-41	127	144	162	164	150	166	167	191	206
1941-42	141	136	143	139	139	131	128	110	124
1942-43	148	136	144	127	137	132	175	295	166
1943-44	64	75	76	78	74	76	82	83	96
1944-45	121	121	122	132	124	135	144	164	134
1945-46	111	108	105	107	108	105	93	76	107
1946-47	60	63	63	70	64	72	69	42	70
1947-48	85	81	77	75	79	65	68	2	15
1948-49	71	72	71	72	72	63	77	39	44
1949-50	102	89	80	81	88	84	77	50	72
1950-51	160	143	137	111	137	105	140	125	108
1951-52	182	172	174	176	175	157	210	259	231
1952-53	92	88	70	76	82	76	80	80	90
1953-54	84	83	74	81	81	80	80	72	83
1954-55	64	65	60	72	66	72	72	52	64
1955-56	178	182	187	183	182	146	169	169	44
1956-57	85	82	72	82	81	81	77	3	72
1957-58	159	152	157	163	157	161	167	143	174
1958-59	55	57	51	59	56	53	40	26	41
1959-60	56	61	54	51	56	47	47	39	46
1960-61	38	42	35	40	40	37	30	6	29
1961-62	94	102	103	119	106	120	104	70	100
1962-63	120	118	110	120	111	122	130	90	122
1963-64	62	65	51	71	61	64	60	48	62
1964-65	168	159	149	141	153	126	127	100	114
1965-66	69	76	71	80	73	70	64	87	84

(a) Average unimpaired runoff in thousands of acre-feet computed from the 40-year period October 1916 to September 1955.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only, and do not include runoff from minor tributaries and from valley floor.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF

In percent of average
and in thousands of acre-feet (a)

Month		Stanislaus River below Melones P. H.	Tuolumne River below La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	120	31	69	96	76	86	105	100	116
	Average	8	15	7	18	49	18	4	1	14
November	Percent	208	331	410	359	326	253	208	108	165
	Average	23	39	18	28	107	26	8	4	17
December	Percent	79	103	64	115	94	119	98	75	122
	Average	48	84	43	57	233	48	17	8	23
January	Percent	63	92	85	104	87	91	86	59	107
	Average	54	90	48	60	251	52	18	12	24
February	Percent	36	58	42	60	51	53	46	36	64
	Average	82	137	79	92	390	79	28	18	32
March	Percent	92	84	71	99	87	95	74	34	80
	Average	113	171	92	128	503	106	38	24	45
April	Percent	110	105	106	117	110	127	92	33	75
	Average	199	283	148	237	867	215	64	24	86
May	Percent	57	81	75	86	77	88	62	20	55
	Average	287	440	239	420	1386	421	101	21	142
June	Percent	40	25	26	40	33	37	31	12	35
	Average	177	352	168	368	1064	368	74	9	123
July	Percent	19	24	18	34	27	32	23	14	35
	Average	48	104	44	148	344	138	23	2	59
August	Percent	32	55	34	58	51	55	42	0	63
	Average	12	18	9	43	83	40	6	1	24
September	Percent	66	142	108	49	79	55	53	0	65
	Average	6	8	4	18	36	17	3	0	14
1965-66 Water Year	Percent	69	76	71	80	75	78	64	37	64
	Average	1057	1741	897	1617	5312	1530	383	124	604

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 30-year period October 1915 through September 1965.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3
 GAGING STATION
 ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

B52580	Bean Creek Near Coulterville	12-20-65
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DISCONTINUED STATIONS

C03130	Elk Bayou near Tulare	7- 7-65
B03105	Stanislaus River near Mouth	12-10-64

PUBLICATION DISCONTINUED

C35170	Deer Creek at Terra Bella Irrigation District ^a	9-30-65
B71100	Millerton Lake at Friant, Daily Content ^b	9-30-65
B71121	Millerton Lake at Friant, Daily Inflow ^c	9-30-65

a Published at five-year intervals.

b Published in U. S. Geological Survey "Surface Water Records of California" report.

c Published in U. S. Bureau of Reclamation "Operations and Maintenance" report.

TABLE B-4

DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
1,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies do not necessarily adhere to the above criteria. These data are published as received, excepting that minor rounding off of certain figures are necessary to make the data compatible to the Department's machine programs.

TABLE B-4

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	66	71	29	32	30	28	76	118	131	129	150	129	1
2	59	71	41	30	30	28	76	118	129	129	152	118	2
3	53	71	43	30	30	28	76	126	129	126	152	118	2
4	53	71	43	29	30	26	78	137	129	126	150	118	4
5	53	71	43	29	32	26	78	148	129	133	146	118	5
6	53	71	43 *	27	37	27	78	144	126	146	148	116	6
7	62	71	43	26	41	26	80	137	126	150	148	116	7
8	71 *	71 *	45	26	40	31	80	137	126	150	150	116	8
9	73	71	53	26	38	43	78	137	122	150	148	116	9
10	73	71	53	25	37	43	82	124	116	148	150	116	10
11	73	71	55	30	36	43	80	112	116	148	150	116	11
12	73	71	55	32	34	43	80	112	114	148	152 *	116	12
13	74	73	55	33	34	41	82	114	114	152	152	116	12
14	74	74	53	32	34	51	82	110	114	159	150	116	14
15	74	68	51	32	34	73	82	110	114	159	150	116	15
16	73	62	51	32	34	73	82	108	114	152	150	116	16
17	71	59	52	32	34	74	84	108	120	144	150	114	17
18	71	52	52	32	34 *	80	86	110	126	139	150	114	18
19	71	48	52	31	34	89	91	110	126	135	150	114	19
20	71	38	52	31	33	87	78	112	133 *	133	150	114	20
21	71	30	52	30	33	86	86	114	137	133	148	114	21
22	71	29	51	30	33	86	87	116	139	133	148	114	22
23	71	29	51	30	33	84	87	116	144	131	148	114	22
24	71	29	49	30	34	82	87	116	139	129	148	106	24
25	71	28	49	32	34 *	82	87 *	122	133	129	152	97	25
26	71	27	49	32 *	33	80	89	131	133	135	157 *	95	26
27	71	28	49	31	33	80	87	131	133	141	155	93 *	27
28	71	29	46 *	30	30	80	93	131	133	144	155	89	28
29	69 *	29	44 *	27	30	80	108 *	131	129 *	150	152	91	29
30	69	29	40	29	30	80	120	131	129 *	148	148	93 *	30
31	71	33	33	31	30	78 *	78	131	131	148	141	93	31
MEAN	68.3	53.8	47.6	30.0	33.9	59.9	84.7	123	127	141	150	111	MEAN
MAX.	74.0	74.0	55.0	33.0	41.0	89.0	120	148	144	159	157	129	MAX
MIN.	53.0	27.0	29.0	25.0	30.0	26.0	76.0	108	114	126	141	89	MIN
AC. FT.	4200	3200	2930	1840	1880	3690	5740	7400	7540	8680	9220	6620	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE		MAXIMUM					MINIMUM					TOTAL ACRE FEET	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME		
86.2		161	2.60	7	13		24	1.69	3	2	1730		62380

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938	--	294.00	USGS

Station located 2 miles downstream from Friant Dam. Flow regulated by Millerton Lake beginning in 1944, and by other reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2021	1189	0.0	0.0	869	1585	2592	4672	3490	4216	4927	2516	1
2	1812	1194	0.0	0.0	867	1705	2522	3644	3496	4287	4804	2347	2
3	1882	960	0.0	0.0	869	1658	2525	3655	3559	4434	4159	2021	3
4	1884	959	0.0	44	870	1684	2533	3671	3558	4442	4153	2021	4
5	1882	929	0.0	0.0	872	1542	2595	3662	3558	4384	4216	2024	5
6	1774	927	0.0	0.0	872	1543	2596	3565	3722	4153	4273	2008	6
7	1775	930	0.0	0.0	872	1606	2589	3498	3812	4151	4273	2599	7
8	1852	930	0.0	0.0	870	2047	2517	3503	3690	4144	4405	2624	8
9	1891	645	0.0	0.0	540	2110	2526	3446	3713	4134	4445	2691	9
10	1919	646	0.0	0.0	251	2245	2590	2776	3737	4128	4461	2626	10
11	1915	646	0.0	0.0	132	2514	2588	2520	3728	4130	4407	2631	11
12	1915	645	0.0	0.0	476	2519	2522	2524	3786	4134	4475	2560	12
13	1847	610	0.0	134	475	2585	2516	2641	3792	4138	4476	2388	13
14	1850	613	0.0	69	475	2615	2580	2832	3734	4199	4467	2268	14
15	1847	611	0.0	108	615	2618	2741	2888	3753	4307	4456	1952	15
16	1809	502	0.0	0.0	552	2615	2912	2909	3965	4443	4444	1953	16
17	1768	503	0.0	0.0	867	2707	2920	2911	3962	4443	4225	2021	17
18	1764	504	0.0	0.0	867	2675	2854	2915	3961	4434	4319	2045	18
19	1770	395	0.0	0.0	868	2679	3113	2992	4616	4375	4318	2017	19
20	1635	395	0.0	0.0	865	2673	3067	3065	3641	4444	4381	1916	20
21	1663	394	0.0	0.0	928	2673	3429	3143	4156	4440	4382	1846	21
22	1662	394	0.0	0.0	962	2740	3657	3279	4213	4436	4188	1844	22
23	1663	395	0.0	0.0	997	2757	3548	3137	4365	4430	3896	1934	23
24	1460	395	0.0	0.0	1338	2857	3496 b	3138	4329	4686	3826	1846	24
25	1465	358	0.0	0.0	1466	2854	3494	3165	4261	4428	3730	1917	25
26	1503	357	0.0	0.0	1479	2921	3592	3170	4134	4653	3418	1932	26
27	1396	213	0.0	0.0	1472	2921	3743	3167	3975	4668	3307	1955	27
28	1362	213	0.0	0.0	1412	2920	3939	3166	3982	4673	3150	1971	28
29	1294	143	0.0	0.0	2850	3941	3882	3989	4800	3084	2136	2074	29
30	1194	0.0	0.0	644	2791	3934	3873	4152	4810	2806	2074	31	30
31	1213 a	0.0	0.0	867	2765	2765	3155	3155	4787	2690	2690	2690	31
MEAN	1700	586	0.0	60.2	857	2418	3006	3244	3894	4398	4083	2156	MEAN
MAX	2021	1194	0.0	867	1479	2921	3941	4672	4616	4810	4927	2691	MAX.
MIN.	1194	0.0	0.0	0.0	132	1542	2516	2520	3490	4128	2690	1844	MIN.
AC. FT.	104603	34899		3701	47599	148709	178563	199466	231727	270409	251030	128297	AC FT.

E - ESTIMATED
 NR - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND #
 a - 25-HOUR DAY
 b - 23-HOUR DAY

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
2209	DISCHARGE	GAGE HT	MO. DAY TIME	DISCHARGE	GAGE HT	MO. DAY TIME	1599003

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE			FROM	TO			
37 47 45	121 35 05	SW 31 18 4E						JUN 51-DATE	1951	TD	0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1422	907	274	0.0	0.0	1120	1649	2719	2209	2711	3131	1657	1
2	1293	810	224	0.0	627	1133	1548	2562	2220	2855	3143	1510	2
3	1298	661	226	0.0	427	1167	1455	2458	2341	2834	2939	1110	3
4	1320	629	241	0.0	428	1083	1534	2415	2344	2858	2680	1111	4
5	1329	635	251	0.0	420	1062	1503	2376	2360	2920	2674	1111	5
6	1315	667	269	0.0	85	953	1589	2351	2412	2736	2673	1479	6
7	1278	665	271	0.0	90	998	1564	2326	2634	2636	2675	1867	7
8	1279	661	252	0.0	236	1400	1478	2344	2526	2656	2716	1807	8
9	1325	613	254	0.0	240	1524	1423	2357	2412	2656	2776	1806	9
10	1337	501	197	0.0	208	1850	1340	1999	2465	2698	2754	1805	10
11	1347	501	150	0.0	205	1834	1498	1716	2428	2728	2763	1804	11
12	1413	503	150	0.0	324	1913	1418	1721	2454	2736	2789	1799	12
13	1324	454	106	0.0	315	1883	1490	1777	2482	2739	2785	1462	13
14	1330	491	0.0	0.0	313	1935	1463	1959	2455	2710	2827	1451	14
15	1336	497	0.0	0.0	405	1991	1661	1994	2471	2779	2853	1350	15
16	1276	479	0.0	0.0	407	2042	1949	2078	2666	2898	2873	1294	16
17	1250	465	0.0	0.0	572	2032	1745	2019	2685	2898	2812	1294	17
18	1261	409	0.0	0.0	627	2012	1851	1952	2734	2886	2815	1294	18
19	1228	340	0.0	0.0	644	2013	1965	2083	2737	2841	2838	1312	19
20	1091	357	0.0	0.0	639	1928	2001	2092	2824	2782	2841	1287	20
21	1067	360	0.0	0.0	644	1985	2129	2096	2746	2803	2790	1282	21
22	1190	345	0.0	0.0	662	2002	2104	2233	2738	2789	2887	1281	22
23	1170	305	0.0	0.0	739	1953	2262 b	2146	2880	2789	2782	1270	23
24	1156	275	0.0	0.0	856	1944	2262	2103	3009	2789	2485	1271	24
25	1112	150	0.0	0.0	1058	1938	2216	2068	2952	2862	2484	1271	25
26	1150	150	0.0	0.0	1120	1938	2225	2158	2916	2845	2246	1319	26
27	997	150	0.0	0.0	1092	1957	2476	2206	2853	2887	2176	1276	27
28	989	150	0.0	0.0	1064	1893	2702	2135	2640	2913	2171	1311	28
29	1022	150	0.0	0.0		1899	2593	2248	2612	2953	1998	1482	29
30	878 a	226	0.0	0.0		1833	2586	2310	2650	3055	1871	1408	30
31	899		0.0	0.0		1836		2209		3055	1809		31
MEAN	1215	450	92.4	0.0	516	1711	1856	2168	2595	2816	2648	1426	MEAN
MAX.	1422	907	274	0.0	1120	2042	2702	2719	3009	3055	3143	1867	MAX.
MIN.	878	150	0.0	0.0	0.0	953	1340	1716	2209	2636	1809	1110	MIN.
AC. FT.	74794	26789	5683		28655	105225	110251	133309	154439	173151	162795	84855	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *
 a - 25-HOUR DAY
 b - 23-HOUR DAY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRES FEET
1464	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	1059946

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT	DATE			FROM	TO		
36 47 11	120 23 05	NW 19 13S 15E										

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	180	116	67	19	0.0	147	264	356	404	448	464	300	1
2	144	115	68	19	0.0	148	261	361	398	448	454	308	2
3	140	103	68	19	0.0	150	261	357	396	448	451	301	3
4	147	93	68	19	0.0	169	268	344	398	461	428	301	4
5	160	92	68	85	2.0	182	278	344	404	475	386	333	5
6	134	90	68	169	18	180	278	348	401	479	401	381	6
7	109	88	68	144	23	175	266	348	401	466	421	378	7
8	108	90	68	92	23	171	251	348	404	444	434	354	8
9	106	88	68	59	26	217	251	344	396	438	456	326	9
10	106	88	68	42	27	264	246	321	378	436	451	301	10
11	104	88	46	33	29	271	231	318	381	428	446	278	11
12	104	87	23	29	29	281	217	336	386	411	444	274	12
13	104	87	22	24	30	278	221	356	408	411	444	274	13
14	100	82	21	20	45	276	236	351	434	411	438	266	14
15	93	82	20	19	100	274	256	348	444	416	416	258	15
16	92	84	20	18	109	276	268	348	456	428	401	246	16
17	92	84	19	18	113	286	291	351	451	431	416	241	17
18	92	78	19	18	114	318	311	336	448	438	414	248	18
19	111	78	19	17	108	358	311	321	456	444	411	258	19
20	131	78	19	16	101	358	311	308	451	441	406	266	20
21	132	75	19	14	132	338	308	306	451	438	414	286	21
22	129	74	19	13	180	321	308	306	448	451	406	276	22
23	114	74	19	12	182	311	316	304	446	456	381	264	23
24	104	72	19	10	182	291	331	288	444	454	376	261	24
25	104	72	19	8.0	184	267	331	314	438	454	366	268	25
26	104	72	19	5.0	186	214	346	341	438	451	354	276	26
27	100	71	19	1.0	189	212	371	336	451	446	344	276	27
28	101	70	19	0.0	169	229	381	336	464	441	331	274	28
29	116	68	19	0.0	268	386	336	336	461	446	336	254	29
30	116	68	19	0.0	264	378	336	336	461	446	314	221	30
31	118	19	19	0.0	258	258	364	364	454	454	286	286	31
MEAN	116	84.0	36.0	30.0	82.0	250	291	336	427	443	403	285	MEAN
MAX.	180	116	68.0	169	189	358	386	364	464	479	464	381	MAX
MIN.	92.0	68.0	19.0	0.0	0.0	147	217	268	378	411	286	221	MIN.
AC.FT.	7130	4970	2220	1870	4560	15380	17320	20650	25380	27250	24770	16950	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE 233	MAXIMUM DISCHARGE GAGE HT. MO. DAY TIME	MINIMUM DISCHARGE GAGE HT. MO. DAY TIME	TOTAL ACRE FEET 168450
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LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D. 8 5M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
36 48 37	120 22 35	SW 7 13S 15E	8840		6-1-52	OCT 39-DATE		1939		142.53	USBR

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles (revised). Drainage area previously published as 4,310 square miles. This station is equipped with DWR radio telemeter.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B6792C	BIG CREEK DIVERSION NEAR FISH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.4	3.4	26	36	11	12	32	36	17	6.1	3.6	2.4	1
2	3.2	2.8	22	37	12	12	32	36	17	6.4	4.4	2.2	2
3	3.0	2.7	22	37	11	11	32	36	16	6.7	2.2	1.9	3
4	3.3	2.8	22	36	11	11	32	36	16	6.8	2.2	1.7	4
5	3.4	2.7	21	23	11	12	33	3	15	6.2	2.9	1.8	5
6	3.3	3.0	20	16	12	13	37	35	15	5.8	4.8	2.7	6
7	3.1	3.0	20	14	12	14	37	35	19	5.5	2.7	2.1	7
8	3.0	3.1	19	13	12	14	26	34	17	5.4	2.6	1.9	8
9	3.0	3.0	20	13	12	16	18	34	17	5.4	2.5	1.9	9
10	3.0	3.0	19	13	12	28	19	37	15	5.2	2.6	1.7	10
11	3.1	3.1	18	13	12	27	18	35	14	5.1	4.7	1.9	11
12	2.9	3.7	19	13	12	28	18	33	12	5.1	2.7	2.0	12
13	3.0	16 E	17	13	12	30	18	32	12	5.3	2.7	2.1	13
14	3.2	47 E	16	13	12	30	18	31	11	5.3	2.7	2.1	14
15	5.9	45 E	23	13	12	30	18	30	11	5.0	2.5	2.1	15
16	4.4	38 E	33	13 E	12	30	18	28	11	4.9	2.4	2.0	16
17	3.9	31 E	22	13 E	12	29	18	28	10	4.7	2.3	1.7	17
18	3.7	35 #	28	13 E	12	29	17	25	9.9	4.5	2.3	3.7	18
19	3.9	35 E	40	13 E	12	29	17	25	9.6	4.4	2.1	3.4	19
20	3.8	28 E	45	13 E	12	29	19	25	9.4	4.4	2.0	2.8	20
21	3.6	22	39	13 #	12	29	20	24	9.1	4.2	2.0	2.4	21
22	3.4	23 E	38	13 E	13	29	20	24	9.1	4.0	2.0	2.1	22
23	3.6	41 E	40	13 E	13	29	20	24	9.1	3.9	2.0	2.0	23
24	3.4	43 E	47	12 E	13	29	20	22	8.9	3.8	2.0	2.0	24
25	3.1	42 E	50	12 E	12	30	21	21	8.7	3.7	1.9	2.0	25
26	3.1	39 E	51 E	12 E	12	30	21	20	8.3	3.7	2.1	1.9	26
27	3.1	35 E	43 E	12 E	12	30	9.8	19	8.0	3.5	2.2	2.0	27
28	3.2	33 E	14	12 E	12	31	19	18	7.3	2.4	2.2	1.9	28
29	3.1	30 E	16	12 E	12	31	36	18	7.0	1.9	2.2	1.8	29
30	3.1	27 E	24	12 E	12	31	36	18	6.8	3.4	2.3	1.9	30
31	2.9		29	12 E		32		18		3.8	2.5		31
MEAN	3.4	21.5 E	27.8	16.2 E	12.0	24.7	23.3	28.1	11.8	4.7	2.5	2.1	MEAN
MAX	5.9	47.0 E	51.0 E	37.0	13.0	32.0	37.0	37.0	19.0	6.7	3.6	3.7	MAX
MIN.	2.9	2.7	14.0	12.0 E	11.0	11.0	9.8	18.0	6.8	1.9	1.9	1.7	MIN
AC. FT.	208	1282 E	1712	998 E	664	1517	1388	1730	705	292	153	127	AC FT

E - ESTIMATED
 # - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM				TOTAL ACRE FEET	
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	
14.9	56 E	2.83	11	14	1800	0.0		7	28	1440	10780

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 28 10	119 36 52	NE25 5S 21E		3.58	1-30-63	DEC 58-DATE		1958		# 0	LOCAL

Station located 195 feet upstream from road culvert, 1.4 miles southeast of Fish Camp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at times affected by ice and extreme high flows affected by 36-inch culvert pipe below station. Altitude of gage is approximately 5,400 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	067325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.6	8.4	40	53	34	41	85	97	44	16	8.1	2.5	1
2	5.4	7.8*	39	44	32	38	82	97	42	16	7.5	1.3	2
3	4.8	7.6	37	42	36	33	82	94	40	14	7.6*	1.9	3
4	4.5*	7.6	37	38	38	33	78	95	39	14	1.3	2.1	4
5	5.6	7.6	39	43	39	36	82	95	37	14	4.8	1.6	5
6	6.7	6.9	39	43	100	36	82	94	37	14	1.6	2.3	6
7	5.6	6.8	39	44	61	36	81	95	43	13	2.5	2.7	7
8	5.4	8.0	39	44	47	40	78	92	42	13	2.3	2.5	8
9	4.9	8.1	38	43	43	51	74	93	42	13	2.4	2.8	9
10	5.8	8.8	38	39	42	72	84	104	38	12	2.1	2.8	10
11	5.8	9.2	38	36	36	72	77	100	32	12	2.1	3.2	11
12	6.5	9.4	39	35	38	73	80	94	30	12	2.1	2.9	12
13	8.6	15	32	36	36	78	77	87	28	12	2.1	2.9	13
14	9.0	79	31	32	34	79	80	82	26	12	2.1	3.3	14
15	16	58	27	32	36	76	81	79	25	12	2.1	3.9	15
16	13	91	27	31	36	76	80	76	25	12	1.6	2.9*	16
17	13	97	22	30	37	70	76	76	25	11	1.6	2.1	17
18	13	66	19	29	37	70	82	76	24	11	1.6	3.4	18
19	12	58	23	29	36	71	80	73	24	10	1.6	5.5	19
20	12	44	28	28	36	71	81	71	22	10	1.6	4.2	20
21	12	36	25	27	38	69	77	62	23	9.4	1.6	3.2	21
22	11	37	25	29	38	67	75	61	23	8.0	1.6	3.0	22
23	12	102	22	30	40	66	72	58	23	8.1	3.2	3.0	23
24	13	155	25	28	48	65	74	56	23	7.4	2.9	3.0	24
25	11	94	28	28	41	66	75	53	22	6.9	3.1	2.1	25
26	10	65	27	29	41	66	72	49	19	6.9	3.5	2.3	26
27	11	54	26	28	39	66	68	48	18	6.7	3.1	2.8	27
28	10	49	30	28	39	63	60	45	18	5.8	2.9	2.8	28
29	10	47	117	29	64	84	84	48	17	3.9	3.2	3.0	29
30	9.8	44	90*	42	71	95	48	18	18	4.9	3.1	2.8	30
31	8.4		70	37		84		46		6.0	2.5		31
MEAN	9.1	42.9	37.3	35.0	41.4	61.3	78.5	75.7	29.0	10.5	3.1	2.9	MEAN
MAX.	16.0	155	117	53.0	100	84.0	95.0	104	44.0	16.0	8.1	5.5	MAX.
MIN.	4.5	6.8	19.0	27.0	32.0	33.0	60.0	46.0	17.0	1.9	1.6	1.6	MIN.
AC.FT.	56.0	255.3	229.3	215.4	229.7	376.7	466.9	465.7	172.4	64.9	19.0	17.0	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL	
35.5	254	2.11	11	24	1340	1.3	0.89	9	3	0950	25680

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961	DATE	0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,520 feet (from topographic map).

TABLE B-4 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1966	867300	MIAMI CREEK NEAR OAKHURST

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.7	1.4	6.8	11	6.5	7.9	9.1	4.2	3.3	1.5	1.5	0.2	1
2	1.6	1.4*	6.5*	11	6.1*	7.4*	8.7	4.1	3.0	1.4	0.7	0.4	2
3	1.5	1.5	6.6	10	6.1	7.5	8.3	4.0	3.0*	1.4	0.7*	0.3	3
4	1.5*	1.5	6.8	9.6	6.8	7.2	7.9	4.0*	3.0	1.3	0.6	0.3	4
5	1.4	1.6	6.6	9.2	7.3	7.3	7.4	3.9	2.9	1.3	0.6	0.8	5
6	1.5	1.5	6.5	8.7	20	7.7	6.9*	4.0	2.9	1.2*	0.6	0.5	6
7	1.4	1.5	6.2	8.6*	12	7.7	6.8	3.9	3.4	1.3	0.5	0.4	7
8	1.4	1.7	5.9	8.8	9.8	8.3	6.6	3.9	3.5	1.3	0.5	0.3	8
9	1.4	1.8	5.7	8.1	8.7	8.5	6.8	4.1	3.4	1.3	0.5	0.3	9
10	1.4	2.0	5.9	8.1	7.9	11	10	7.4	3.2	1.2	0.5	0.3	10
11	1.5	1.9	5.7	7.7	7.0	12	8.6	5.3	2.9	1.1	0.4	0.4	11
12	1.4	2.1	6.7	7.5	7.6	11	8.4	4.7	2.7	1.2	0.4	0.3	12
13	1.4	3.6	5.6	7.5	7.3	12	7.3	4.3	2.5	1.2	0.3	0.3	13
14	1.7	21	5.7	7.5	7.1	12	6.8	4.0	2.3	1.2	0.5	0.3	14
15	2.9	17	5.4	7.4	6.9	11	6.1	3.9	2.2	1.2	0.6	0.3	15
16	2.4	27	5.2	7.3	6.8	11	6.1	3.9	2.1	1.1	1.1	0.3*	16
17	2.3	36 *	5.4	7.0	6.2	10	5.9	3.8	2.1	1.1	0.6*	0.3	17
18	2.0	19	5.9	6.8	6.5	10	6.7	3.6	2.0	1.1	0.4	0.5	18
19	2.2	12	5.3	6.6	6.5	10	7.6	3.4	1.9	1.0	0.3	0.8	19
20	2.2	8.0	5.4	6.2	6.8	10	6.7	3.5	2.0	1.0	0.4	0.9	20
21	1.8	6.4	5.2	6.2	6.8	10	6.2	3.4	1.8	0.9	0.3	0.7	21
22	1.8	6.7	5.2	6.2	7.3	9.9	5.7	3.3	1.9	0.9	0.3	0.6	22
23	1.8	32	5.3	6.1	7.7	9.9	5.4	3.2	1.9	0.9	0.3	0.5	23
24	1.7	39	5.3	5.9	9.2	9.9	5.1	3.1	2.0	0.6	0.3	0.4	24
25	1.6	19	5.3	5.8	8.3	9.7	5.0	3.0	1.9	0.8	0.3	0.5	25
26	1.4	12	5.3	5.8	7.5	9.8	4.9	2.8	1.8	0.8	0.3	0.5	26
27	2.8	9.9	5.3	5.8	7.3	9.8	4.9	3.0	1.6	0.7	0.3	0.5	27
28	1.8	9.2	6.9	5.7	7.4	9.2	4.7	2.9	1.5	0.7	0.3	0.5	28
29	2.2	8.0	29	5.8	9.5	9.5	3.9	3.1	1.5	0.7	0.4	0.4	29
30	1.8	7.3	16	6.8	9.2	9.2	4.0	3.3	1.5	0.7	0.4	0.4	30
31	1.6		12	6.8		9.2		3.2		0.7	0.4		31
MEAN	1.8	10.4	7.1	7.5	7.9	9.5	6.6	3.8	2.4	1.1	0.5	0.4	MEAN
MAX.	2.9	39.0	29.0	11.0	20.0	12.0	10.0	7.0	3.5	1.5	1.3	0.9	MAX.
MIN.	1.4	1.4	5.2	5.7	6.1	7.2	3.9	2.8	1.5	0.7	0.3	0.2	MIN.
AC.FT.	1.09	6.21	4.38	4.59	4.39	5.86	3.94	2.34	1.42	0.65	0.30	0.28	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL ACRES FEET	
DISCHARGE		GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	
4.9		7.0	4	21	11 17 0510	0.0		9	4	1620	354.3

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 38	119 39 10	SE22 6S 21E	1140	9.08	2-1-63	DEC 59-DATE		1959	DATE	0.00	

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Maximum discharge of record from rating curve extended above 202 cfs. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	807610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	5.0	0.0	3.0	0.0	12	12	0.0	12	1
2	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	12	12	1.0	12	2
3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	12	3.0	8.0	7.0	3
4	0.0	0.0	0.0	0.0	1.0	7.0	0.0	0.0	7.0	0.0	12	0.0	4
5	0.0	0.0	0.0	0.0	2.0	12	0.0	0.0	0.0	0.0	12	0.0	5
6	0.0	0.0	0.0	36	1.0	12	0.0	1	0.0	0.0	12	0.0	6
7	0.0	0.0	0.0	211	0.0	12	5.0	0.0	5.0	0.0	12	0.0	7
8	9.0	0.0	0.0	194	0.0	4.0	0.0	0.0	12	9.0	8.0	0.0	8
9	12	0.0	0.0	132	0.0	0.0	0.0	0.0	8.0	12	0.0	0.0	9
10	12	0.0	0.0	87	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	10
11	4.0	0.0	0.0	60	1.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	11
12	0.0	0.0	0.0	44	6.0	0.0	0.0	9.0	0.0	5.0	12	9.0	12
13	0.0	0.0	0.0	36	10	0.0	0.0	12	0.0	12	8.0	12	13
14	0.0	0.0	0.0	29	8.0	9.0	0.0	3.0	9.0	12	0.0	12	14
15	0.0	0.0	0.0	24	0.0	12	0.0	0.0	12	12	0.0	8.0	15
16	0.0	0.0	0.0	18	0.0	12	0.0	9.0	12	12	6.0	0.0	16
17	0.0	0.0	0.0	12	0.0	12	0.0	12	12	12	0.0	9.0	17
18	0.0	0.0	0.0	8.0	0.0	5.0	0.0	12	12	7.0	0.0	9.0	18
19	0.0	0.0	0.0	4.0	0.0	0.0	0.0	7.0	4.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	3.0	0.0	0.0	7.0	0.0	9.0	4.0	9.0	0.0	20
21	0.0	0.0	0.0	1.0	0.0	0.0	12	8.0	12	12	12	0.0	21
22	0.0	0.0	0.0	1.0	0.0	0.0	12	8.0	12	12	12	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	12	9.0	7.0	12	12	9.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	12	4.0	0.0	4.0	12	12	24
25	0.0	0.0	0.0	0.0	0.0	9.0	7.0	0.0	0.0	9.0	12	8.0	25
26	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	12	9.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	12	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	8.0	0.0	9.0	12	4.0	0.0	0.0	29
30	0.0	0.0	0.0	4.0	0.0	12	0.0	7.0	12	0.0	0.0	0.0	30
31	0.0	0.0	0.0	6.0	0.0	12	0.0	4.0	0.0	0.0	9.0	0.0	31
MEAN	1.2	0.0	0.0	29.4	1.4	4.5	2.5	3.7	6.5	7.1	6.0	4.0	MEAN
MAX.	12.0	0.0	0.0	211	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	73			1810	77	280	149	226	389	438	369	236	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET
	DISCHARGE	GAGE HT	MO	DAY	DISCHARGE	GAGE HT	MO	DAY	
5.6									404.7

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 38	120 30 02	N 12 11 S 13 E	8200		6-5-52	OCT 40-DATE		1940		116.5	USED

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Drainage area previously reported as 5,630 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	2544	LAT FLUX C&WHEE RIVER 1.1 MI. N.A. STATE MAP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.6	2.1	2.7	12.6	4.2	4.1	1.8	2.2	5.2	4.0	4.1	4.1	1
2	2.1	2.1	2.4	8.7	3.6	3.1	1.8	2.5	6.2	4.5	4.0	4.1	2
3	1.8	2.1	2.1	7.5	3.1	2.8	1.8	2.7	5.1	3.7	4.0	4.1	3
4	1.8	2.1	1.9	6.6	3.0	2.6	1.6	2.5	4.6	3.6	4.0	4.1	4
5	1.8	2.3	1.8	6.4	3.5	2.5	1.6	2.1	3.9	3.7	4.0	4.1	5
6	1.8	2.1	1.8	6.1	11.9	2.5	1.5	2.2	3.8	4.5	4.1	4.1	6
7	1.8	2.1	1.5	6.4	7.6	2.5	1.5	2.2	3.8	4.7	4.1	4.1	7
8	1.8	2.1	1.5	6.4	5.6	2.0	1.4	2.3	3.7	4.7	4.1	4.1	8
9	1.8	2.1	1.4	5.5	4.5	1.5	1.5	2.0	3.9	4.4	4.1	4.1	9
10	1.8	2.3	1.4	5.0	4.3	2.7	2.6	2.8	3.4	3.4	4.0	4.0	10
11	1.6	2.3	1.4	4.6	3.7	2.9	2.1	2.3	4.6	3.4	3.0	4.0	11
12	1.8	2.6	2.1	4.4	3.7	2.6	1.8	1.7	4.2	3.4	3.0	4.0	12
13	1.8	3.4	1.9	4.1	3.4	2.6	1.7	1.3	3.7	3.4	3.0	4.0	13
14	2.3	2.6	1.7	3.6	3.3	2.7	1.5	1.3	3.4	3.4	3.0	4.0	14
15	4.1	4.8	1.6	3.4	3.1	2.6	1.5	1.2	3.7	3.4	3.0	4.0	15
16	4.0	7.9	1.5	3.1	3.1	2.5	1.4	1.0	2.7	3.4	3.0	4.0	16
17	3.3	22.2	1.4	3.0	3.0	2.4	1.3	1.2	2.4	3.0	3.0	4.0	17
18	2.1	7.8	1.3	3.0	3.1	2.5	1.4	1.1	2.7	3.3	3.0	4.0	18
19	2.8	5.0	1.3	2.7	3.0	2.3	2.2	1.8	2.4	3.3	3.0	4.0	19
20	2.5	2.8	1.3	2.6	3.0	2.3	1.8	1.4	2.0	3.2	3.0	4.0	20
21	2.9	2.1	1.3	2.4	3.0	2.3	1.5	1.1	1.7	3.2	3.0	4.0	21
22	2.6	2.0	1.3	2.2	3.0	2.3	1.3	1.0	1.6	3.1	3.0	4.0	22
23	2.3	13.4	1.3	2.2	2.9	2.2	1.2	1.0	1.5	3.1	3.0	4.0	23
24	2.3	25.3	1.2	2.3	3.2	2.2	1.3	1.0	1.4	3.2	3.0	4.0	24
25	2.0	15.2	2.7	2.1	3.2	2.1	1.2	1.0	1.3	3.1	3.0	4.0	25
26	2.1	8.9	2.5	2.0	3.5	3.0	1.1	1.0	1.4	3.0	3.0	4.0	26
27	2.1	5.4	1.9	1.9	3.2	2.0	1.1	1.0	1.3	3.0	3.0	4.0	27
28	2.0	4.0	2.4	1.7	3.0	1.9	1.1	1.0	1.3	3.0	3.0	4.0	28
29	2.2	3.4	2.1	1.6	1.9	1.0	1.0	1.0	1.1	3.0	3.0	4.0	29
30	2.1	3.0	2.6	1.5	1.7	1.8	1.0	1.0	1.1	3.0	3.0	4.0	30
31	2.1	2.0	2.6	4.6	1.6	1.6	1.0	1.0	1.1	3.0	3.0	4.0	31
MEAN	2.3	4.6	4.1	43.4	36.8	24.2	15.2	9.9	3.4	3.3	3.0	4.0	MEAN
MAX	4.1	25.3	27.1	12.6	11.9	31.0	20.0	28.0	6.8	6.9	4.1	4.0	MAX
MIN	1.8	2.1	1.2	16.0	29.0	18.0	1.0	1.0	1.3	3.0	3.0	4.0	MIN
AC. FT	14.0	275.2	253.5	26.6	21.5	14.0	7.0	6.0	2.0	2.1	2.0	4.0	AC FT

E - ESTIMATE
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 R - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
15.6	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
	8.62	6.67	12	29	2400	0.0		7	25	1830	13480

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT.	DATE			FROM	TO			
37 20 09	119 48 59	SE 7 7S 20E	3710E	10.34	1-31-63	NOV 57-DATE			1957	DATE	0.00	LOCAL

Station located 1.1 miles upstream from the mouth, 5.5 miles west of Ahwahnee. Drainage area 57.8 square miles. Maximum discharge of record from rating curve extended above 1,789 cfs. Altitude of gage 980 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B64300	NEXT FORK CHOCOMILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	10 E	9.3	19 *	16	7.0	3.7	0.8	0.0	0.0	0.0	1
2	0.0	0.1	9.9E	6.0	16	16	6.7	3.2	0.6	0.0	0.0	0.0	2
3	0.0	0.1	9.1E	4.9	13	14 *	6.5	3.1	0.6	0.0	0.0	0.0	3
4	0.0	0.1	8.5E	4.0	13	14	5.9	3.2	0.5	0.0	0.0	0.0	4
5	0.0	0.1	7.8E	3.6 *	15	13	5.5	3.1*	0.5	0.0	0.0	0.0	5
6	0.0	0.1	7.3#	3.4	7.6	13	5.3	2.8	0.5*	0.0	0.0	0.0	6
7	0.0*	0.1	6.9	3.5	4.6	12	5.1	2.6	0.5	0.0	0.0	0.0	7
8	0.0	0.2	6.2	3.3	3.4	11	5.1	2.5	0.5	0.0	0.0	0.0	8
9	0.0	0.2	6.1	3.0	2.7	12	5.3	2.6	0.4	0.0	0.0	0.0	9
10	0.0	0.2	5.7	2.6	2.5	15	9.0	1.2	0.3	0.0	0.0	0.0	10
11	0.0	0.2	5.7	2.2	2.2	13	7.2*	6.5	0.2	0.0	0.0	0.0	11
12	0.0	0.2	15	2.1	2.1	12	6.7	4.3	0.2	0.0	0.0	0.0	12
13	0.0	0.3	10	1.9	2.0	11	5.8	3.5	0.1	0.0	0.0	0.0	13
14	0.0	3.3	8.1	1.7	2.0	11	5.1	2.9	0.1	0.0	0.0	0.0	14
15	0.1	9.7	6.8	1.6	1.9	10	4.9	2.3	0.0	0.0	0.0	0.0	15
16	0.0	3.3	6.2	1.5	1.8	10	4.8	2.0	0.0	0.0	0.0	0.0	16
17	0.0	11.0 *	5.5	1.3	1.7	9.6	4.4	1.9	0.0	0.0	0.0	0.0	17
18	0.0	2.5	5.2	1.2	1.7	9.7	5.1	1.6	0.0	0.0	0.0	0.0	18
19	0.0	2.4	4.8	1.1	1.6	9.0	8.6	1.9	0.0	0.0	0.0	0.0	19
20	0.0	5.2	4.9	1.1	1.5	8.6	5.3	1.4	0.0	0.0	0.0	0.0	20
21	0.0	2.9	5.3	1.0	1.5	8.5	5.2	1.2	0.0	0.0	0.0	0.0	21
22	0.0	6.8	4.9	1.0	1.5	9.0	5.0	1.1	0.0	0.0	0.0	0.0	22
23	0.0	1.51 #	4.6	9.8	1.4	8.2	4.6	1.1	0.0	0.0	0.0	0.0	23
24	0.0	26.5 E	4.2	9.1	1.4	8.2	4.6	1.0	0.0	0.0	0.0	0.0	24
25	0.0	8.5 E	2.5	8.6	1.5	7.7	4.5	0.9	0.0	0.0	0.0	0.0	25
26	0.0	2.1 E	1.4	8.4	2.1	7.3	4.1	0.8	0.0	0.0	0.0	0.0	26
27	0.0	1.2 E	8.6	7.8	1.7	7.2	4.1	0.8	0.0	0.0	0.0	0.0	27
28	0.0	1.2 E	2.8	6.9	1.6	7.2	4.2	0.7	0.0	0.0	0.0	0.0	28
29	0.1	1.2 E	3.7	6.9	3.6	6.9	4.1	0.7	0.0	0.0	0.0	0.0	29
30	0.1	1.1 E	2.23	3.6	6.7	6.7	4.0	0.8	0.0	0.0	0.0	0.0	30
31	0.1	1.1 E	1.95	2.3	6.8	6.8	0.8	0.8	0.0	0.0	0.0	0.0	31
MEAN	0.0	28.4E	33.6	23.5	21.3	10.4	5.5	2.5	0.2	0.0	0.0	0.0	MEAN
MAX.	0.1	26.5 E	3.79	93.6	76.0	16.0	9.0	12.0	0.8	0.0	0.0	0.0	MAX.
MIN.	0.0	0.1	4.2	6.9	13.0	6.7	4.0	0.7	0.0	0.0	0.0	0.0	MIN.
AC. FT.	1	1690E	2065	1443	1182	642	325	152	12	0.0	0.0	0.0	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
10.4	14.70	6.75	12	29	2200	0.0		10	1	1730	7511

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 25 14	119 52 25	SE10 6S 19E	3590E	8.67	4-3-58	NOV 57-DATE			1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Maximum discharge of record from rating curve extended above 1,829 cfs. Altitude of gage is 1,680 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B64360	MIDDLE FORK CHOWCHILLA RIVER NEAR NIPPINAWASEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2	0.2	6.3	52	15 *	7.7	3.4	1.7	0.7	0.0	0.0	0.0	1
2	0.2	0.2	5.7	34	13	7.6	3.2	1.6	0.7	0.0	0.0	0.0	2
3	0.2	0.2	4.7	27	10	8.5*	3.2	1.5	0.6	0.0	0.0	0.0	3
4	0.2	0.2	4.4	23	9.4	6.4	3.2	1.5	0.6	0.0	0.0	0.0	4
5	0.2	0.2*	4.1	23 *	9.5	6.4	2.9	1.4*	0.5	0.0	0.0	0.0	5
6	0.2	0.2	3.7*	25	37	6.0	2.7	1.4	0.5*	0.0	0.0	0.0	6
7	0.2*	0.2	3.4	21	23	5.6	2.7	1.4	0.5	0.0	0.0	0.0	7
8	0.2	0.2	3.3	18	17	5.5	2.7	1.4	0.4	0.0	0.0	0.0	8
9	0.2	0.3	3.2	16	14	5.0	3.0	1.5	0.4	0.0	0.0	0.0	9
10	0.2	0.3	3.1	14	12	7.2	5.0	6.7	0.3	0.0	0.0	0.0	10
11	0.2	0.4	3.0	13	10	6.5	4.6*	4.8	0.3	0.0	0.0	0.0	11
12	0.2	0.5	5.2	12	9.5	5.9	3.4	3.1	0.2	0.0	0.0	0.0	12
13	0.2	0.8	5.4	11	9.0	5.5	3.2	2.2	0.2	0.0	0.0	0.0	13
14	0.2	4.2	4.9	10	8.8	5.1	2.9	1.5	0.1	0.0	0.0	0.0	14
15	0.5	7.5	4.5	9.9	8.7	5.1	2.9	1.2	0.1	0.0	0.0	0.0	15
16	0.3	17	4.0	8.8	9.1	4.9	2.8	1.1	0.1	0.0	0.0	0.0	16
17	0.3	109 *	3.8	8.1	8.3	4.7	2.8	1.1	0.1	0.0	0.0	0.0	17
18	0.2	26	3.7	8.0	7.9	4.7	2.7	0.9	0.1	0.0	0.0	0.0	18
19	0.2	13	3.6	7.4	7.4	4.4	5.0	0.7	0.1	0.0	0.0	0.0	19
20	0.2	6.5	3.5	7.3	7.4	4.3	3.4	0.8	0.1	0.0	0.0	0.0	20
21	0.2	4.5	3.7	7.1	7.4	4.1	3.1	0.7	0.0	0.0*	0.0	0.0	21
22	0.2	4.8	3.8	6.8	7.1	4.2	2.9	0.8	0.0	0.0	0.0	0.0	22
23	0.2	44 *	3.5	6.4	7.4	4.0	2.7	0.7	0.1	0.0	0.0	0.0	23
24	0.2	80	3.1	6.2	7.1	4.0	2.2	0.5	0.1	0.0	0.0	0.0	24
25	0.2	58	11	5.6	7.6	3.9	2.1	0.5	0.0	0.0	0.0	0.0	25
26	0.1	31	9.9	5.8	9.0	3.7	2.3	0.5	0.0	0.0	0.0	0.0	26
27	0.1	16	7.9	5.7	9.2	3.6	2.1	0.4	0.0	0.0	0.0	0.0	27
28	0.1	12	10	5.3	7.8	3.3	2.0	0.4	0.0	0.0	0.0	0.0	28
29	0.1	9.5	20.1	5.2	7.4	3.4	1.9	0.3	0.0	0.0	0.0	0.0	29
30	0.1	8.1	14.5	20	7.4	3.3	1.6	0.2	0.0	0.0	0.0	0.0	30
31	0.2		123	19		3.1		0.6	0.0	0.0	0.0	0.0	31
MEAN	0.2	15.2	19.5	14.2	11.0	5.0	2.9	1.4	0.2	0.0	0.0	0.0	MEAN
MAX	0.5	109	201	52.0	37.0	7.7	5.0	6.7	0.7	0.0	0.0	0.0	MAX
MIN	0.1	0.2	3.0	5.2	7.4	3.1	1.5	0.4	0.0	0.0	0.0	0.0	MIN
AC FT.	12	902	1201	876	612	308	174	87	13				AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- END *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
5.8		502	5.51	12	29	2300	0.0		6	18	1750	4186

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD				DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE	FROM			TO			
37 22 56	119 50 11	NE25 6S 19E	1280	10.10	2-1-63	MAR 58-DATE			1958	DATE	0.00	LOCAL

Station located 6 miles west of Nipinnawasee, 10 miles southeast of Mariposa. Tributary to East Fork Chowchilla River. Drainage area is 13.6 square miles. Drainage area previously reported as 12.3 square miles. Altitude of gage is 1,520 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B64260	STRIPED ROCK CREEK NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.1	2.4	37	8.3*	4.3	2.0	0.3	0.3	0.0	0.0	0.0	1
2	0.1	0.1	2.0	19	7.0	4.0	1.9	0.2	0.3	0.0	0.0	0.0	2
3	0.1	0.1	1.9	14	5.8	3.6*	1.8	0.2	0.2	0.0	0.0	0.0	3
4	0.1	0.1	1.9	12	5.8	3.5	1.7	0.2	0.2	0.0	0.0	0.0	4
5	0.1	0.2*	1.6	10 *	5.9	3.5	1.7	0.1*	0.3	0.0	0.0	0.0	5
6	0.1	0.1	1.5*	9.5	12	3.5	1.5	0.1	0.3*	0.0*	0.0	0.0	6
7	0.1*	0.1	1.5	8.8	9.0	3.3	1.5	0.1	0.3	0.0	0.0	0.0	7
8	0.0	0.1	1.4	7.6	7.3	3.1	1.5	0.2	0.2	0.0	0.0	0.0	8
9	0.0	0.1	1.4	6.7	6.5	3.1	1.4	0.2	0.2	0.0	0.0	0.0	9
10	0.1	0.1	1.3	6.3	5.8	3.8	2.3	0.2	0.1	0.0	0.0	0.0	10
11	0.1	0.2	1.4	5.9	5.5	3.2	2.0*	0.3	0.1	0.0	0.0	0.0	11
12	0.1	0.3	5.6	5.4	5.3	2.9	1.9	0.3	0.1	0.0	0.0	0.0	12
13	0.1	2.6	2.7	4.7	5.1	2.9	1.6	0.2	0.1	0.0	0.0	0.0	13
14	0.1	2.3	2.0	4.7	5.3	2.8	1.3	0.2	0.0	0.0	0.0	0.0	14
15	0.2	1.7	1.8	4.5	5.0	2.8	1.2	0.1	0.0	0.0	0.0	0.0	15
16	0.1	3.6	1.5	4.1	4.7	3.0	0.9	0.1	0.0	0.0	0.0	0.0	16
17	0.1	2.2 *	1.3	4.0	4.6	2.9	0.8	0.1	0.0	0.0	0.0	0.0	17
18	0.1	2.9	1.3	4.1	4.6	2.8	0.9	0.1	0.0	0.0	0.0	0.0	18
19	0.1	1.7	1.3	3.6	4.0	2.8	1.7	0.1	0.0	0.0	0.0	0.0	19
20	0.1	1.0	1.4	3.6	4.0	2.6	1.1	0.1	0.0	0.0	0.0	0.0	20
21	0.1	0.8	1.7	3.5	4.0	2.5	0.9	0.1	0.0	0.0	0.0	0.0	21
22	0.0	2.6	1.5	3.3	4.1	2.3	1.0	0.2	0.0	0.0	0.0	0.0	22
23	0.1	3.5	1.2	3.5	3.9	2.2	0.8	0.2	0.0	0.0	0.0	0.0	23
24	0.1	2.1	1.3	3.5	4.2	2.1	0.7	0.2	0.0	0.0	0.0	0.0	24
25	0.1	1.6	1.3	3.3	4.0	2.1	0.6	0.1	0.0	0.0	0.0	0.0	25
26	0.0	8.7	6.3	3.6	5.1	2.1	0.5	0.1	0.0	0.0	0.0	0.0	26
27	0.1	5.4	4.5	3.6	4.4	2.1	0.5	0.1	0.0	0.0	0.0	0.0	27
28	0.1	4.4	7.9	3.6	4.4	2.1	0.5	0.1	0.0	0.0	0.0	0.0	28
29	0.1	3.5	133	3.7	2.1	1.4	1.1	0.1	0.0	0.0	0.0	0.0	29
30	0.1	2.9	113	13	2.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	30
31	0.1	0.1	103	0.4	2.1	0.3	0.3	0.3	0.0	0.0	0.0	0.0	31
MEAN	0.1	5.4	13.7	7.4	5.6	2.8	1.2	0.2	0.1	0.0	0.0	0.0	MEAN
MAX.	0.2	35.0	133	37.0	12.0	4.3	2.3	0.9	1.2	0.0	0.0	0.0	MAX.
MIN.	0.0	0.1	1.2	3.0	3.9	2.1	0.3	0.1	0.0	0.0	0.0	0.0	MIN.
AC. FT.	6	320	840	455	310	175	73	12	5	0	0	0	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
3.0	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	2196
	7.45	0.44	12	29	2:00	0.3		10	0650		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECDRD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 20 27	119 53 35	NE 9 7S 19E	1180E	8.87	4-3-58	NOV 57-DATE			1957		0.00	LOCAL

Station located 8.7 miles north of Raymond, 11 miles southeast of Mariposa. Tributary to Chowchilla River. Drainage area is 17.1 square miles. Maximum discharge of record from rating curve extended above 351 cfs. Altitude of gage is approximately 1,090 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	17474	AUTOMATIC RECORDER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	45	44	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	38	14.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	14	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	4.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	1.1	21.8	6.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	1.0	18.0	14.2	0.0	0.0	2.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	43.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	41.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	11.2	0.0	0.0	0.0	14.2	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	6.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	1.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	14.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	8.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	4.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	3.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	6.84	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	19.3	28.0	15.0	26.5	0.0	0.0	4.1	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	19.5	68.4	113.0	16.1	0.0	0.0	27.0	0.0	0.0	0.0	0.0	MAX
MIN.	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN
AC. FT.	0.0	114.6	172.3	92.34	147.4	0.0	0.0	25.4	0.0	0.0	0.0	0.0	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- EXCEEDS

MEAN		MAXIMUM				MINIMUM				TOTAL			
DISCHARGE	19.3	DISCHARGE	113.0	GAGE HT	16.1	MO	1	DAY	1	TIME	6	ACRE FEET	1146

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 08 52	120 36 17	SE13 9S 12E	1740	11.79	1-8-65	DEC 64-DATE		1964	DATE	90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Recorder installed 12-23-64.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	17	187	34 *	12	5.8	2.5	0.1	0.0	0.0	0.0	1
2	0.0	0.0	14	101	32	11	5.5	2.2	0.1	0.0	0.0	0.0	2
3	0.0	0.0	13	72	26	11	5.4	1.9	0.1	0.0	0.0	0.0	3
4	0.0	0.0	13	56	25	11 *	5.2	1.5*	0.1	0.0	0.0	0.0	4
5	0.0	0.0	11	45 *	25	10	5.0	1.7	0.1	0.0	0.0	0.0	5
6	0.0	0.0	9.8	37	61	9.5	4.8	1.7	0.1*	0.0	0.0	0.0	6
7	0.0	0.0	9.1*	33	60	9.7	4.7	1.6	0.1	0.0	0.0	0.0	7
8	0.0	0.0*	9.7	29	44	9.3	4.8	1.6	0.1	0.0	0.0	0.0	8
9	0.0	0.0	9.5	26	35	9.3	4.9	1.3	0.1	0.0	0.0	0.0	9
10	0.0	0.0	8.5	24	31	11	6.9	3.3	0.1	0.0	0.0	0.0	10
11	0.0	0.0	8.9	23	26	11	7.0*	3.8	0.1	0.0	0.0	0.0	11
12	0.0	0.0	29	21	25	9.9	5.9	2.7	0.1	0.0	0.0	0.0	12
13	0.0	0.0	18	19	23	9.4	5.2	2.2	0.1	0.0	0.0	0.0	13
14	0.0	7.5	14	18	22	9.1	4.7	1.7	0.0	0.0	0.0	0.0	14
15	0.0	12	12	17	21	9.1	4.7	1.7	0.0	0.0	0.0	0.0	15
16	0.0	23	11	16	19	8.8	4.5	1.9	0.0	0.0	0.0	0.0	16
17	0.0	113 *	5.6	15	18	8.2	4.1	1.1	0.0	0.0	0.0	0.0	17
18	0.0	14.9	9.0	14	18	8.2	4.0	0.9	0.0	0.0	0.0	0.0	18
19	0.0	26.9	8.2	14	16	8.1	5.1	0.7	0.0	0.0	0.0	0.0	19
20	0.0	30	8.1	13	15	7.7	4.7	0.7	0.0	0.0	0.0	0.0	20
21	0.0	16	7.6	13	14	7.4	4.2	0.5	0.0	0.0	0.0	0.0	21
22	0.0	14	7.5	13	14	7.2	3.4	0.3	0.0	0.0	0.0	0.0	22
23	0.0	251 *	7.0	13	13	7.4	3.1	0.3	0.0	0.0	0.0	0.0	23
24	0.0	490	6.6	13	13	7.4	3.0	0.3	0.0	0.0	0.0	0.0	24
25	0.0	242	34	12	13	6.9	3.4	0.2	0.0	0.0	0.0	0.0	25
26	0.0	89	33	12	17	6.4	3.0	0.2	0.0	0.0	0.0	0.0	26
27	0.0	48	22	12	14	6.4	2.9	0.2	0.0	0.0	0.0	0.0	27
28	0.0	32	24	11	13	6.1	2.9	0.1	0.0	0.0	0.0	0.0	28
29	0.0	25	522	11		5.9	2.8	0.1	0.0	0.0	0.0	0.0	29
30	0.0	20	521	50		5.5	2.7	0.1	0.0	0.0	0.0	0.0	30
31	0.0		384	45		6.0		0.1	0.0	0.0	0.0	0.0	31
MEAN	0.0	61.0	58.4	31.8	24.5	8.6	4.5	1.3	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	490	522	187	61.0	12.0	7.0	3.8	0.1	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	6.6	11.0	13.0	5.5	2.7	0.1	0.0	0.0	0.0	0.0	MIN.
AC. FT.		3631	3592	1954	1363	527	267	77	3				AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
15.8	1790	8.33	12	29	2330	0.0		10	1	0000	11410

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 23 55	120 00 10	NE 21 6S 18E	7180E	11.62	4-3-58	NOV 57-DATE			1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles (revised). Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC. c	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	19	490 C	38	14	5.5	1.9	0.0	0.0	0.0	0.0	1
2	0.0	0.0	10	344 C	31	13	5.5	1.7	0.0	0.0	0.0	0.0	2
3	0.0	0.0	8.0	179 C	28	13	5.2	1.6	0.0	0.0	0.0	0.0	2
4	0.0	0.0	7.0	103 C	23	13	4.9	1.5	0.0	0.0	0.0	0.0	4
5	0.0	0.0	5.0	77	22	12	4.6	1.4	0.0	0.0	0.0	0.0	5
6	0.0	0.0	4.0	57	27	11	4.3	1.3	0.0	0.0	0.0	0.0	6
7	0.0	0.0	3.5	45	62	12	4.0	1.2	0.0	0.0	0.0	0.0	7
8	0.0	0.0	3.0	38	53	11	3.8	1.1	0.0	0.0	0.0	0.0	8
9	0.0	0.0	3.0	32	40	11	3.6	1.1	0.0	0.0	0.0	0.0	8
10	0.0	0.0	2.5	28	32	11	3.8	1.1	0.0	0.0	0.0	0.0	10
11	0.0	0.0	3.3	26	29	12	4.9	1.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	22	23	25	12	6.1	1.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	22	21	23	11	6.1	0.9	0.0	0.0	0.0	0.0	12
14	0.0	0.0	12	20	22	10	5.2	1.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	8.0	20	21	9.8	4.3	1.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	7.0	19	20	9.0	3.6	1.6	0.0	0.0	0.0	0.0	16
17	0.0	0.0	6.0	15	18	9.6	3.6	1.8	0.0	0.0	0.0	0.0	17
18	0.0	0.2	5.0	14	18	8.2	4.0	1.6	0.0	0.0	0.0	0.0	18
19	0.0	290	4.0	14	17	8.2	4.0	1.5	0.0	0.0	0.0	0.0	19
20	0.0	180	4.0	13	16	7.8	3.8	1.3	0.0	0.0	0.0	0.0	20
21	0.0	35	5.0	13	15	7.4	4.0	1.2	0.0	0.0	0.0	0.0	21
22	0.0	18	4.0	13	15	7.4	4.6	1.1	0.0	0.0	0.0	0.0	22
23	0.0	81	4.0	12	15	7.4	4.3	1.0	0.0	0.0	0.0	0.0	23
24	0.0	332	4.0	12	14	7.0	3.6	0.9	0.0	0.0	0.0	0.0	24
25	0.0	438	8.0	11	14	7.0	3.6	0.7	0.0	0.0	0.0	0.0	25
26	0.0	316	41	11	15	6.7	3.4	0.6	0.0	0.0	0.0	0.0	26
27	0.0	127	26	11	15	6.7	3.2	0.5	0.0	0.0	0.0	0.0	27
28	0.0	53	19	11	15	6.4	3.0	0.4	0.0	0.0	0.0	0.0	28
29	0.0	32	252	10		6.4	2.6	0.3	0.0	0.0	0.0	0.0	29
30	0.0	23	546	19		6.1	2.0	0.2	0.0	0.0	0.0	0.0	30
31	0.0		529	50		6.1		0.1	0.0	0.0	0.0	0.0	31
MEAN	0.0	64.0	51.0	56.0	24.0	9.4	4.2	1.1	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	438.0	546.0	490.0	62.0	14.0	6.1	1.9	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	2.5	10.0	14.0	6.1	2.0	0.1	0.0	0.0	0.0	0.0	MIN.
AC FT.		3820	3170	3470	1360	580	248	66					AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *
 C - COMPUTED FROM RESERVOIR STAGES.

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	
17.6											12710

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LDNGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B00420	MARIPOSA BYPASS NEAR CRANE RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6				215 **									6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 ** - RESULT OF DISCHARGE MEASUREMENT

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LDHGITUDE	1/4 SEC. T & R M D B.5M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 12 00	130 41 50	NW 31 8S 11E						1962		0.00	USCGS
This station was installed in January 1962, for the Lower San Joaquin Flood Control Project for the purpose of recording flows diverted into Mariposa Bypass by float-activated electrically operated gates. No continuous water stage recorder is installed to date. Miscellaneous measurements of instantaneous discharge will be presented when appropriate.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.2	1.9	7.7	6.8	2.5	1.7	0.4	0.0	0.0	0.0	0.0	1
2	0.1	0.2	1.8	21	5.3	2.5	1.7	0.4	0.0	0.0	0.0	0.0	2
3	0.1	0.3	1.8	14	4.4	2.4	1.7	0.4	0.0	0.0	0.0	0.0	3
4	0.1	0.3	1.7	11	4.0	2.3	1.7	0.4	0.0	0.0	0.0	0.0	4
5	0.1	0.3	1.7	8.0	3.8	2.3	1.7	0.3	0.0	0.0	0.0	0.0	5
6	0.1	0.3	1.7	7.1	5.8	2.3	1.6	0.3	0.0	0.0	0.0	0.0	6
7	0.1	0.3	1.7	5.9	7.7	2.4	1.5	0.3	0.0	0.0	0.0	0.0	7
8	0.1	0.3	1.6	5.3	5.0	2.4	1.4	0.3	0.0	0.0	0.0	0.0	8
9	0.1	0.3	1.6	5.0	4.1	2.4	1.4	0.3	0.0	0.0	0.0	0.0	9
10	0.1	0.3	1.5	4.6	3.8	2.6	1.9	0.3	0.0	0.0	0.0	0.0	10
11	0.1	0.3	2.3	4.4	3.6	2.7	2.0	0.3	0.0	0.0	0.0	0.0	11
12	0.1	0.3	10	4.0	3.4	2.6	1.9	0.3	0.0	0.0	0.0	0.0	12
13	0.1	0.4	3.8	3.8	3.2	2.5	1.7	0.3	0.0	0.0	0.0	0.0	13
14	0.2	0.7	2.7	3.8	3.0	2.4	1.5	0.3	0.0	0.0	0.0	0.0	14
15	0.2	0.6	2.4	3.6	3.0	2.4	1.4	0.3	0.0	0.0	0.0	0.0	15
16	0.2	0.6	2.2	3.6	2.8	2.2	1.3	0.3	0.0	0.0	0.0	0.0	16
17	0.2	0.6	2.0	3.4	2.8	2.1	1.2	0.3	0.0	0.0	0.0	0.0	17
18	0.2	1.1	1.9	3.0	2.7	2.2	1.1	0.3	0.0	0.0	0.0	0.0	18
19	0.2	1.4	1.8	3.0	2.7	2.2	1.0	0.3	0.0	0.0	0.0	0.0	19
20	0.2	1.7	1.8	2.9	2.7	2.1	1.0	0.2	0.0	0.0	0.0	0.0	20
21	0.2	0.9	1.8	2.8	2.7	2.0	1.0	0.2	0.0	0.0	0.0	0.0	21
22	0.2	0.8	1.8	2.8	2.6	2.0	1.0	0.2	0.0	0.0	0.0	0.0	22
23	0.2	2.5	1.7	2.8	2.5	2.0	0.9	0.1	0.0	0.0	0.0	0.0	23
24	0.2	2.9	1.7	2.8	2.5	2.0	0.8	0.1	0.0	0.0	0.0	0.0	24
25	0.2	3.0	4.1	2.8	2.6	1.9	0.7	0.1	0.0	0.0	0.0	0.0	25
26	0.2	8.0	5.0	2.7	2.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	26
27	0.2	3.8	3.0	2.7	2.8	1.9	0.5	0.0	0.0	0.0	0.0	0.0	27
28	0.2	2.9	3.0	2.7	2.6	1.9	0.5	0.0	0.0	0.0	0.0	0.0	28
29	0.2	4.4	2.7	2.7	1.8	1.8	0.5	0.0	0.0	0.0	0.0	0.0	29
30	0.2	2.2	10.8	13	1.8	1.8	0.5	0.0	0.0	0.0	0.0	0.0	30
31	0.2		10.0	11	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.2	3.8	10.0	7.8	3.6	2.2	1.2	0.2	0.0	0.0	0.0	0.0	MEAN
MAX	0.2	30.0	10.8	7.7	7.7	2.7	2.0	0.4	0.0	0.0	0.0	0.0	MAX
MIN.	0.1	0.2	1.5	2.7	2.5	1.7	0.5	0.0	0.0	0.0	0.0	0.0	MIN
AC.FT.	10	229	639	482	201	136	74	14					AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2.5											17.0

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R. M.O.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			
			CFS	GAGE HT.	DATE			FROM	TO	ZERO ON GAGE	REF DATUM
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCSG

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	155940C	BEAR CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	6.9	105	24 *	3.3	0.9	0.3	0.1	0.0	0.0	0.0	1
2	0.0	0.0	5.8	45	20	3.2	0.8	0.2	0.1	0.0	0.0	0.0	2
3	0.0	0.0	5.0	27	14	2.5	0.3	0.1	0.0	0.0	0.0	0.0	3
4	0.0	0.0	4.1	19	12	2.5*	0.7	0.3*	0.1	0.0	0.0	0.0	4
5	0.0	0.0	3.6	15 *	11	2.6	0.6	0.2	0.0	0.0	0.0	0.0	5
6	0.0	0.0	3.3	13	105	2.2	0.6	0.2	0.0*	0.0	0.0	0.0	6
7	0.0	0.0	2.9	11	53	2.4	0.5	0.2	0.0	0.0	0.0	0.0	7
8	0.0	0.0	2.8*	9.7	29	2.3	0.5	0.2	0.0	0.0	0.0	0.0	8
9	0.0	0.0	2.8	8.7	21	2.3	0.6	0.2	0.0	0.0	0.0	0.0	9
10	0.0	0.0	2.5	8.2	16 *	3.0	0.9	0.3	0.0	0.0	0.0	0.0	10
11	0.0	0.0	2.5	7.6	13	2.8	0.9*	0.3	0.0	0.0	0.0	0.0	11
12	0.0	0.0	2.6	6.8	11	2.5	0.7	0.3	0.0	0.0	0.0	0.0	12
13	0.0	0.0	2.7	6.1	9.9	2.2	0.8	0.2	0.0	0.0	0.0	0.0	13
14	0.0	0.0	6.4	5.7	8.5	2.1	0.6	0.2	0.0	0.0	0.0	0.0	14
15	0.0	0.0	5.4	5.3	7.7	2.0	0.6	0.3	0.0	0.0	0.0	0.0	15
16	0.0	0.0	4.6	4.8	7.2	1.7	0.6	0.2	0.0	0.0	0.0	0.0	16
17	0.0	6.7*	3.8	4.3	6.6	1.8	0.5	0.2	0.0	0.0	0.0	0.0	17
18	0.0	137	3.4	4.2	6.3	1.6	0.5	0.2	0.0	0.0	0.0	0.0	18
19	0.0	156	3.1	4.8	5.5	1.6	0.5	0.2	0.0	0.0	0.0	0.0	19
20	0.0	16	2.8	4.3	5.2	1.5	0.4	0.3	0.0	0.0	0.0	0.0	20
21	0.0	8.0	2.6	4.1	4.9	1.4	0.4	0.2	0.0	0.0	0.0	0.0	21
22	0.0	6.9	2.6	4.0	4.4	1.3	0.4	0.2	0.0	0.0	0.0	0.0	22
23	0.0	420 *	2.5	4.0	4.0	1.3	0.3	0.2	0.0	0.0	0.0	0.0	23
24	0.0	218	2.2	3.8	3.8	1.3	0.4	0.2	0.0	0.0	0.0	0.0	24
25	0.0	192	6.4	3.4	3.4	1.3	0.3	0.2	0.0	0.0	0.0	0.0	25
26	0.0	57	12.1	3.3	4.9	1.3	0.4	0.1	0.0	0.0	0.0	0.0	26
27	0.0	19	8.9	3.3	4.2	1.2	0.3	0.1	0.0	0.0	0.0	0.0	27
28	0.0	14	7.7	3.2	3.6	1.1	0.3	0.1	0.0	0.0	0.0	0.0	28
29	0.0	10	30.4	3.2		1.1	0.3	0.1	0.0	0.0	0.0	0.0	29
30	0.0	8.3	303	23		1.0	0.3	0.1	0.0	0.0	0.0	0.0	30
31	0.0		277	41		1.0		0.1	0.0	0.0	0.0	0.0	31
MEAN	0.0	42.3	32.8	13.3	15.0	1.9	0.5	0.2	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	420	304	105	105	3.3	0.9	0.3	0.1	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	2.2	3.2	3.6	1.0	0.3	0.1	0.0	0.0	0.0	0.0	MIN.
AC. FT.		2517	2017	817	832	118	33	13	1				AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL											
DISCHARGE	8.8	DISCHARGE	2248 E	GAGE HT.	8.47	MO	11	DAY	23	TIME	0140	DISCHARGE	0.0	GAGE HT.	10	DAY	1	TIME	0000	TOTAL	6347

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 28 38	120 06 43	SW 21 5S 17E	4166E	9.97	1-7-65	DEC 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 3.7 miles north of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 24.9 square miles. Altitude of gage is approximately 1,210 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	14	260	52	6.0	3.0	0.6	0.3	0.0	0.0	0.0	1
2	0.0	0.0	10	111	36	6.0	3.0	0.5	0.3	0.0	0.0	0.0	2
2	0.0	0.0	7.0	72	28	6.0	3.0	0.5	0.2	0.0	0.0	0.0	2
4	0.0	0.0	7.0	52	22	5.0	3.0	0.4	0.2	0.0	0.0	0.0	4
5	0.0	0.0	6.0	41	18	5.0	3.0	0.3	0.2	0.0	0.0	0.0	5
6	0.0	0.0	5.0	32	79	5.0	3.0	0.2	0.2	0.0	0.0	0.0	6
7	0.0	0.0	5.0	26	119	5.0	3.0	0.1	0.2	0.0	0.0	0.0	7
8	0.0	0.0	4.0	23	60	5.0	3.0	0.2	0.1	0.0	0.0	0.0	8
9	0.0	0.0	4.0	20	42	5.0	3.0	0.3	0.1	0.0	0.0	0.0	9
10	0.0	0.0	4.0	17	32	5.0	3.0	0.3	0.0	0.0	0.0	0.0	10
11	0.0	0.0	4.0	14	26	6.0	3.0	0.5	0.0	0.0	0.0	0.0	11
12	0.0	0.0	14.0	13	21	6.0	4.0	0.5	0.0	0.0	0.0	0.0	12
13	0.0	0.0	17	12	19	5.0	3.0	0.5	0.0	0.0	0.0	0.0	13
14	0.0	0.0	13	11	16	5.0	3.0	0.5	0.0	0.0	0.0	0.0	14
15	0.0	0.0	10	10	15	5.0	3.0	0.5	0.0	0.0	0.0	0.0	15
16	0.0	0.0	7.0	8.0	14	4.0	3.0	0.5	0.0	0.0	0.0	0.0	16
17	0.0	0.0	6.0	8.0	12	4.0	2.0	0.5	0.0	0.0	0.0	0.0	17
18	0.0	0.0	6.0	7.0	12	4.0	2.0	0.4	0.0	0.0	0.0	0.0	18
19	0.0	184	5.0	7.0	11	4.0	2.0	0.4	0.0	0.0	0.0	0.0	19
20	0.0	53	4.0	6.0	10	4.0	2.0	0.3	0.0	0.0	0.0	0.0	20
21	0.0	22	4.0	6.0	10	4.0	2.0	0.3	0.0	0.0	0.0	0.0	21
22	0.0	13	4.0	6.0	8	4.0	2.0	0.3	0.0	0.0	0.0	0.0	22
23	0.0	479	4.0	6.0	7.0	4.0	2.0	0.3	0.0	0.0	0.0	0.0	23
24	0.0	321	4.0	6.0	7.0	4.0	2.0	0.3	0.0	0.0	0.0	0.0	24
25	0.0	311	5.0	6.0	7.0	4.0	1.0	0.3	0.0	0.0	0.0	0.0	25
26	0.0	134	16	5.0	7.0	4.0	1.0	0.3	0.0	0.0	0.0	0.0	26
27	0.0	61	18	5.0	8.0	4.0	1.0	0.3	0.0	0.0	0.0	0.0	27
28	0.0	36	14	5.0	7.0	4.0	1.0	0.3	0.0	0.0	0.0	0.0	28
29	0.0	23	233	5.0	4.0	4.0	0.9	0.3	0.0	0.0	0.0	0.0	29
30	0.0	17	559	26	4.0	4.0	0.8	0.3	0.0	0.0	0.0	0.0	30
31	0.0		350	68	4.0	4.0		0.3	0.0	0.0	0.0	0.0	31
MEAN	0.0	55.0	44.0	29.0	25.0	4.6	2.4	0.4	0.1	0.0	0.0	0.0	MEAN
MAX.	0.0	479.0	559.0	260	119	6.0	3.0	0.6	0.3	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	4.0	5.0	7.0	4.0	0.8	0.1	0.0	0.0	0.0	0.0	MIN.
AC. FT.		3280	2700	1770	1400	286	140	22	3.6				AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
13.3											9600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LDHGITUDE	1/4 SEC T & R N.D.B & M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE			1955		320.50 USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	856400	BURNS CREEK AT HORNITOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.1	2.4	52	15 *	1.7	0.5	0.3	0.0	0.0	0.0	0.0	1
2	0.0	0.1	2.4	26	11	2.2	0.6	0.3	0.0	0.0	0.0	0.0	2
3	0.0	0.3	2.4	18	8.1	2.1	0.5	0.2	0.0	0.0	0.0	0.0	3
4	0.0	0.0	1.8	14	6.4	1.7*	0.5	0.2*	0.0	0.0	0.0	0.0	4
5	0.0	0.0	1.7	11 *	20	1.8	0.5	0.2	0.0	0.0	0.0	0.0	5
6	0.0	0.0	1.8	9.1	103	1.8	0.4	0.2	0.0*	0.0*	0.0	0.0	6
7	0.0	0.0	1.7	8.2	25	1.8	0.5	0.2	0.0	0.0	0.0	0.0	7
8	0.0	0.0	1.6*	7.3	14	1.6	0.5	0.3	0.0	0.0	0.0	0.0	8
9	0.0	0.0	1.7	6.7	11	1.8	0.8	0.3	0.0	0.0	0.0	0.0	9
10	0.0	0.0	1.6	6.0	8.3	2.6	0.9	0.3	0.0	0.0	0.0	0.0	10
11	0.0	0.0	4.2	5.4	6.6	2.4	0.9*	0.3	0.0	0.0	0.0	0.0	11
12	0.0	0.0	32	5.2	6.0	2.0	0.8	0.4	0.0	0.0	0.0	0.0	12
13	0.0	0.0	5.5	4.0	4.0	1.9	0.7	0.3	0.0	0.0	0.0	0.0	13
14	0.0	0.3	3.7	4.4	4.8	1.0	0.6	0.2	0.0	0.0	0.0	0.0	14
15	0.0	0.2	3.2	4.4	4.0	1.7	0.5	0.2	0.0	0.0	0.0	0.0	15
16	0.0	0.3	3.0	4.4	4.1	1.0	0.7	0.2	0.0	0.0	0.0	0.0	16
17	0.0	0.2*	2.4	3.8	3.6	1.0	0.5	0.2	0.0	0.0	0.0	0.0	17
18	0.1	29	2.1	3.9	3.1	1.2	0.4	0.2	0.0	0.0	0.0	0.0	18
19	0.1	13	2.1	3.1	2.8	1.2	0.3	0.1	0.0	0.0	0.0	0.0	19
20	0.1	2.0	2.1	2.8	2.4	1.0	0.2	0.1	0.0	0.0	0.0	0.0	20
21	0.1	1.3	2.1	2.5	2.5	1.0	0.3	0.1	0.0	0.0	0.0	0.0	21
22	0.1	1.6	2.1	3.1	2.3	1.0	0.3	0.1	0.0	0.0	0.0	0.0	22
23	0.1	286 *	1.9	2.8	2.3	1.0	0.3	0.1	0.0	0.0	0.0	0.0	23
24	0.1	125	1.8	2.0	2.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	24
25	0.1	122	1.5	2.8	2.8	0.8	0.3	0.1	0.0	0.0	0.0	0.0	25
26	0.1	19	6.3	2.9	4.4	0.8	0.3	0.1	0.0	0.0	0.0	0.0	26
27	0.1	9.0	4.3	2.7	3.0	0.8	0.3	0.1	0.0	0.0	0.0	0.0	27
28	0.1	5.4	5.8	2.6	2.6	0.7	0.3	0.1	0.0	0.0	0.0	0.0	28
29	0.1	3.9	282	3.0	0.6	0.6	0.3	0.1	0.0	0.0	0.0	0.0	29
30	0.1	3.1	199	75	0.7	0.3	0.3	0.1	0.0	0.0	0.0	0.0	30
31	0.1	164	45	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.1	27.8	26.3	11.3	11.3	1.4	0.5	0.2	0.0	0.0	0.0	0.0	MEAN
MAX	0.1	286	282	79.0	103	2.7	0.9	0.4	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	1.6	2.5	2.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	MIN.
AC FT.	3	1239	1617	694	570	88	28	11					AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL											
DISCHARGE	5.9	DISCHARGE	1330	GAGE HT.	6.0	MO.	11	DAY	23	TIME	2010	DISCHARGE	0.0	GAGE HT.	10	DAY	1	TIME	1600	ACRE FEET	4290

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 29 42	120 14 17	SE17 5S 16E	9200E	10.66	2-15-62	DEC 58-DATE		1958		0.00	LOCAL

Station located 130 feet south of Stockton-Mariposa road, 0.2 mile southwest of Hornitos. Tributary to San Joaquin River via Bear Creek. Drainage area is 26.7 square miles. Maximum discharge of record from rating curve extended above 398 cfs, by slope-area measurement of peak flow. Altitude of gage is approximately 750 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	5.0	172	42	7.0	0.1	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	6.0	71	29	6.0	0.1	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	5.0	52	22	5.5	0.1	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	3.0	41	15	5.0	0.1	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	1.8	36	16	4.5	0.1	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	1.2	30	124	4.5	0.1	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.5	26	74	4.5	0.1	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.3	23	39	4.5	0.1	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.3	20	29	4.5	0.1	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.2	18	23	5.5	0.1	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	1.2	16	20	6.5	0.1	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	80	16	18	7.0	0.1	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	33	14	16	5.5	0.1	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	19	13	14	4.5	0.1	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	14	12	14	4.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	10	12	12	3.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	8.0	11	12	1.8	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	6.5	10	12	1.8	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	2.7	5.0	9.5	10	0.6	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.8	4.5	9.0	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.3	4.0	8.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.2	3.5	8.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	118	2.4	7.5	7.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	368	1.2	7.0	6.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	250	9.0	6.5	6.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	68	22	6.5	8.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	28	16	5.5	9.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	15	14	5.5	8.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	10	287	6.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	7	587	93		0.1	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0		356	88		0.1		0.0		0.0			31
MEAN	0.0	29.0	49.0	28.0	22.0	2.9	0.5	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	368	587	172	124	7.0	0.1	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.2	5.5	6.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC FT.		1720	2990	1690	1220	178	2.7						AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
10.8	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
											7800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	BC74J	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	117	14	437	1700	394	91	76	47	35	34	42	26	1
2	114	13	334	2030	345	98	66	48	37	28	46	28	2
3	104	13	268	2350	298	74	60	50	38	31	42	30	3
4	89	13	207	1740	293	53	55	43	40	36	38	26	4
5	69	14	176	1200	266	45	49	41	44	38	38	28	5
6	57	14	168	943	236	44	46	39	49	41	40	27	6
7	52	16	145	777	248	45	45	40	42	35	36	24	7
8	52	14	124	729	355	49	47	38	39	33	31	24	8
9	49	12	107	694	357	47	46	40	42	33	31	23	9
10	43	12	93	691	413	44	49	47	37	30	32	23	10
11	38	12	87	537	363	43	59	68	33	29	29	26	11
12	34	13	89	462	272	43	72	83	30	30	30	27	12
13	29	14	153	412	227	44	73	82	25	32	32	30	13
14	34	23	163	372	194	40	59	50	28	30	34	32	14
15	29	31	135	342	183	38	54	41	26	26	32	32	15
16	30	44	121	310	141	33	53	45	28	27	28	36	16
17	34	70	110	293	154	30	64	48	27	27	26	34	17
18	31	75	100	270	144	29	46	61	28	29	26	31	18
19	26	66	87	248	134	29	40	74	26	33	25	27	19
20	26	53	75	241	123	31	39	76	26	34	27	26	20
21	24	61	83	230	115	34	47	63	28	30	29	25	21
22	23	65	71	213	95	45	53	48	26	33	29	26	22
23	23	107	67	192	94	54	50	44	26	31	32	24	23
24	22	336	65	177	98	67	50	43	26	31	29	22	24
25	21	729	65	168	100	66	43	58	26	32	27	22	25
26	20	907	64	155	100	60	41	73	31	33	34	22	26
27	18	1060	67	138	95	62	44	53	33	30	36	24	27
28	17	941	77	128	89	75	48	46	38	31	32	27	28
29	16	732	99	119	86	45	44	40	40	31	31	27	29
30	15	548	377	125	91	43	43	43	40	31	30	28	30
31	15		793	234		88		38		35	27		31
MEAN	41.0	201	161	584	213	53.8	52.1	52.1	33.3	31.8	32.3	26.9	MEAN
MAX	117	1060	793	2350	413	91.0	76.0	83.0	49.0	41.0	46	36.0	MAX.
MIN.	15.0	12.0	64.0	119	89.0	29.0	39.0	38.0	26.0	27.0	25.0	22.0	MIN.
AC. FT.	2521	11940	9921	36020	11830	3308	3098	3201	1960	1956	1985	1601	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	123	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
	123	2480	69.42	1	3	0750	11.0	60.46	11	10	1530	89370

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M. D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 75 10E	6060	73.04	2-17-62	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	800975	PANOCHÉ DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	20	21	25	37 E	20	34	49	45	47	44	45	50	1
2	21	18	25	35 E	19	34	47	45	47	45	53	43	2
3	24	16	21	34 E	16	38	50	45	50	46	54	42	3
4	24	16	20	24 #	14	41	45	45	48	51	53	41	4
5	23	14	20	24	15	48	50	47	54	49	47	38	5
6	21	15	20	23	14	45	47	52	50	44	44	44	6
7	24	14	21	28	14	46	49	53	53	44	51	42	7
8	25	20	21	29	15	46	47	53	53	43	50	44	8
9	22	17	22	29	16	42	49	58	52	43	45	41	9
10	24	20	19	28	17	46	45	58	47	49	43	42	10
11	24	19	18	27	16	45	43	55	50	50	41	42	11
12	21	18	17	28	18	50	47	52	47	49	41	38	12
13	20	32	15	27	19	53	48	45	49	47	37	34	13
14	21	41	18	27	19	55	44	47	47	51	42	38	14
15	21	32	21	26	17	58	39	42	42	46	42	30	15
16	23	42	17	24	16	59	44	41	45	45	44	33	16
17	21	65	17	26	19	60	39	43	47	50	43	24	17
18	20	56	25	24	27	60	35	44	44	50	45	21	18
19	23	30	23	20	27	57	37	47	48	54	44	23	19
20	26	24	30	21	23	52	41	52	52	49	51	27	20
21	27	21	28 #	20	19	51	46	46	56	48	47	22	21
22	29	26	27 E	21	22	46	46	46	58	48	50	22	22
23	23	66	14 E	19	22	48	47	46	59	48	46	21	23
24	21	69	16 E	16	25	45	47	42	54	49	42	23	24
25	24	64	29 E	13	22	46	49	46	57	46	36	22	25
26	19	46	29 E	15	26	43	49	46	59	46	40	20	26
27	19	36	28 E	21	28	46	50	45	58	42	43	21	27
28	23	33	34 E	18	29	49	46	46	55	45	42	22	28
29	24	32	44 E	15	51	48	46	46	48	48	45	18	29
30	21	27	47 E	18	46	44	46	46	46	43	46	22	30
31	18		46 E	21	45	45				42	46		31
MEAN	22.5	31.7	24.4 E	23.8	19.4	47.9	45.6	47.7	51.2	47.0	45.1	31.7	MEAN
MAX.	29.0	69.0	47.0 E	37.4 E	29.4	60.0	51.0	58.0	59.0	54.0	54.0	50.0	MAX.
MIN.	18.0	14.0	14.0 E	13.0	14.0	34.0	35.0	41.0	42.0	42.0	35.0	18.0	MIN.
AC. FT.	1380	1884	1501 E	1462	1099	2945	2711	2830	3045	2868	2773	1884	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— EXAMINED

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
36.6	69.0	41.5	11	24	0540	11.0	40.5	12	23	1510	25460

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FRDM	TD		
36 55 25	120 41 19	NW 5 12S 12E	69.0	9.19	11-24-65	FEB 59-SEP 62	OCT 62-JUL 63	1959	DATE	-2.00	LOCAL

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	852600	NORTH FORK MERCED RIVER NEAR COUTLERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.9	0.8	12	66	15 *	9.7	3.9	3.3	1.9	1.9	0.4	0.3	1
2	0.7	0.9	11	44	14	9.7	4.3	3.4	2.1	1.6	0.5	0.1*	2
3	1.1	0.9	9.4	34	13	8.6	4.3	3.3	1.6*	1.1	0.2*	0.3	3
4	1.1	0.8	8.1	25	12	8.5*	4.0	3.2*	1.3	1.1	0.1	0.3	4
5	0.6	0.7	7.6	27 *	13	9.2	3.8	3.7	1.5	1.0	0.1	0.2	5
6	0.5	0.6	7.0	31	51	8.9	3.9*	3.7	1.4	1.1	0.1	0.2	6
7	0.6*	0.4	6.1*	36	41	9.1	3.0	3.0	1.8	1.0*	0.1	0.1	7
8	0.7	0.6*	5.2	35	30	8.5	2.5	4.0	1.7	0.6	0.1	0.1	8
9	1.0	0.6	5.7	30	25	8.6	2.5	4.2	1.6	1.0	0.1	0.2	9
10	1.6	0.6	5.7	25	22	8.3	7.2	3.8	1.6	0.6	0.2	0.2	10
11	1.3	0.9	5.7	22	19	7.8	5.1	3.3	1.8	0.7	0.3	0.1	11
12	1.3	1.8	8.5	19	17	6.8	3.8	5.1	1.4	0.8	0.3	0.1	12
13	1.6	3.9	8.4	17	15	6.7	3.6	4.2	1.4	0.9	0.3	0.1	12
14	1.8	9.1	8.9	15	14	6.7	4.3	3.5	1.9	1.0	0.2	0.1	14
15	2.4	4.5	8.3	14	14	6.7	4.3	3.0	2.0	1.1	0.1	0.1	15
16	3.4	10	7.8	12	13	6.2	4.3	2.9	1.4	0.9	0.3	0.1	16
17	2.1	18 *	8.0	12	12	6.2	4.3	2.4	1.2	0.8	0.3	0.0	17
18	0.2	9.2	7.8	11	12	6.0	4.4	2.2	1.2	0.9	0.1	0.1	18
19	0.6	101	7.8	9.7	11	5.5	4.7	2.0	1.3	0.9	0.1	0.2	19
20	0.6	17	7.5	9.4	10	5.9	4.3	2.4	1.4	0.9	0.1	1.7	20
21	1.7	10	7.8	9.1	10	5.1	4.7	1.9	1.3	0.8	0.1	0.1	21
22	0.9	11	7.5	9.7	10	4.7	4.3	2.3	1.4	0.9	0.2	1.5	22
23	0.7	24.3 *	7.3	9.4	9.7	4.9	3.8	2.5	1.3	0.9	0.2	1.3	23
24	0.8	30.0	7.4	9.1	11	4.7	3.7	2.0	1.1	0.9	0.1	0.4	24
25	1.3	9.2	15	9.1	11	4.7	3.6	1.8	0.9	0.9	0.0	0.7	25
26	1.1	50	13	9.1	11	4.5	3.6	1.8	1.2	0.2	0.2	0.5	26
27	1.2	29	12	9.1	10	4.5	3.3	1.8	1.4	0.2	0.2	0.5	27
28	0.8	23	21	9.1	9.7	4.2	4.3	1.1	1.3	0.3	0.1	0.5	28
29	0.8	18	15.2	9.8	9.7	4.5	4.0	1.7	1.7	0.3	0.1	0.4	29
30	0.9	14	13.0	15	15	4.5	3.6	2.1	1.7	0.4	0.0	0.3	30
31	1.1		9.2 *	15		4.2		1.9		0.5			31
MEAN	1.1	35.2	20.0	19.7	16.2	6.5	4.0	3.0	1.5	0.8	0.2	0.4	MEAN
MAX	3.4	300	152	66.1	51.1	9.7	7.2	5.8	2.1	1.9	0.5	1.7	MAX
MIN	0.2	0.4	5.2	9.1	9.7	4.1	2.5	1.1	0.9	0.1	0.1	0.0	MIN.
AC. FT.	70	2093	1233	1213	902	404	241	162	89	40	11	26	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND #

MEAN DISCHARGE					MAXIMUM					MINIMUM					TOTAL
DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
4.0					882 E	5.87	11	23	2.7	2.0		8	6	1420	6912

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T. & R M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 44 51	120 02 12	NW 19 2S 18E	3440E	7.83	1-31-63	DEC 58-DATE		1958		0.00	LOCAL

Station located 40 feet upstream from Greeley Hill Road Bridge, 9 miles northeast of Coulterville. Drainage area is 30.3 square miles. Altitude of gage is 2,360 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B5280	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			NR	20	7.0*	3.1	1.7	0.8	0.7	0.5	0.4	0.4	1
2			NR	12	5.8	3.0	1.7	0.8	0.7	0.5	0.4	0.4	2
3			NR	8.9	5.2	2.9	1.8	0.8	0.6*	0.5	0.4	0.4	3
4			NR	8.1	5.1	2.8*	1.7	0.8*	0.6	0.5	0.4	0.4	4
5			NR	9.3*	5.6	2.8	1.7	0.7	0.5	0.5	0.4	0.4	5
6			NR	9.9	26	2.7	1.6*	0.7	0.5	0.5	0.3	0.4	6
7			NR	9.6	14	2.5	1.6	0.8	0.5	0.4*	0.4	0.4	7
8			NR	9.3	9.1	2.4	1.5	0.7	0.5	0.4	0.4	0.4	8
9			NR	8.5	7.2	2.5	1.7	0.8	0.5	0.5	0.4	0.4	9
10			NR	7.1	6.5	3.0	4.2	1.2	0.5	0.5	0.4	0.4	10
11			NR	6.5	5.5	2.6	2.4	0.9	0.5	0.5	0.4	0.4	11
12	N	N	NR	5.8	5.2	2.6	2.0	0.9	0.5	0.5	0.4	0.4	12
13			NR	5.4	4.7	2.6	1.7	0.7	0.5	0.5	0.4	0.4	13
14	O	O	NR	5.1	4.6	2.5	1.5	0.7	0.5	0.5	0.4	0.4	14
15			NR	4.8	4.3	2.4	1.4	0.7	0.5	0.5	0.5	0.4	15
16	R	R	NR	4.2	4.2	2.3	1.4	0.6	0.5	0.5	0.5	0.4	16
17			NR	4.3	4.1	2.3	1.4	0.7	0.5	0.5	0.4	0.3	17
18	E	E	NR	4.1*	3.8	2.3	1.4	0.6	0.5	0.5	0.4	0.4	18
19			NR	3.9	3.6	2.1	1.5	0.6	0.5	0.4	0.4	0.5	19
20	C	C	NR	3.5	3.5	2.0	1.3	0.6	0.5	0.4	0.4	0.6	20
21	O	O	2.1	3.3	3.2	2.0	1.3	0.6	0.5	0.4	0.4	0.5	21
22			2.1	3.3	3.1	2.0	1.2	0.6	0.5	0.4	0.4	0.5	22
23	R	R	1.8E	3.2	3.0	1.9	1.2	0.6	0.4	0.3	0.5	0.5	23
24			2.0E	3.2	4.0	1.9	1.2	0.6	0.5	0.3	0.4	0.5	24
25	D	D	3.1E	3.1	3.9	1.9	1.2	0.5	0.5	0.3	0.5	0.5	25
26			2.8E	3.0	4.1	1.8	1.0	0.5	0.5	0.3	0.4	0.5	26
27			2.6E	3.0	3.8	1.7	1.0	0.6	0.5	0.3	0.4	0.5	27
28			1.0 E	3.0	3.3	2.0	1.0	0.6	0.5	0.4	0.5	0.5	28
29			5.5 #	3.2	1.8	1.0	1.0	0.6	0.5	0.3	0.5	0.5	29
30			4.1 E	7.1	1.7	0.9	0.9	0.7	0.5	0.4	0.5	0.5	30
31			36 *	6.5	1.7	0.7	0.7	0.7	0.5	0.4	0.5	0.5	31
MEAN	NR	NR	NR	6.2	5.8	2.3	1.5	0.7	0.5	0.4	0.4	0.4	MEAN
MAX.	NR	NR	NR	20	26	3.1	4.2	1.2	0.7	0.5	0.5	0.6	MAX.
MIN	NR	NR	NR	3.0	3.0	1.7	0.9	0.5	0.4	0.3	0.3	0.3	MIN
AC. FT.	NR	NR	NR	381	324	142	92	43	31	27	27	27	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	4CRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE			FROM	TO			
37 44 29	120 07 00	SE20 2S 17E	101	E	3.17	12-29-65	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 miles east of Greeley Hill and 4.8 miles northeast of Coulterville. Recorder was installed December 20, 1965.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	E51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	3.1	3.1	5.3	8.0*	3.6	1.5	0.9	0.2	0.1	2.0	0.0	1
2	0.0	0.1	2.7	2.4	8.4	3.0	1.4	0.9	0.2	0.1	0.0	0.0	2
3	0.1	7.1	2.4	1.5	6.9	3.3	1.4	0.8	0.2*	0.1	0.0	0.0	3
4	0.1	0.1	2.0	1.2	6.1	2.9*	1.3	0.8*	0.2	0.0	0.0	0.0	4
5	0.0	0.1	2.7	1.2	6.6	3.1	1.4	0.9	0.2	0.1	0.0	0.0	5
6	0.0	0.1	2.0	1.6	7.3	2.7	1.3*	0.8	0.2	0.1	0.0	0.0	6
7	0.0*	0.1	1.7*	8.2	3.0	2.8	1.4	0.9	0.2	0.0*	0.0	0.0	7
8	0.0	0.1*	1.5	7.0	1.8	2.8	1.4	0.9	0.2	0.0	0.0	0.0	8
9	0.0	0.1	1.4	5.8	1.3	2.8	1.5	0.8	0.2	0.0	0.0	0.0	9
10	0.0	0.1	1.4	5.0	9.9	2.8	3.4	1.1	0.2	0.0	0.0	0.0	10
11	0.0	2.2	1.8	4.4	8.1	2.6	1.9	1.0	0.1	0.0	0.0	0.0	11
12	0.0	0.2	3.4	4.2	7.2	2.4	1.6	0.9	0.1	0.0	0.0	0.0	12
13	0.0	0.5	2.2	4.0	6.3	2.7	1.4	0.8	0.1	0.0	0.0	0.0	13
14	0.1	2.5	2.1	4.1	5.8	2.5	1.4	0.8	0.1	0.0	0.0	0.1	14
15	0.1	1.8	2.1	4.1	5.5	2.4	1.3	0.7	0.1	0.0	0.0	0.1	15
16	0.1	4.4	2.0	2.7	5.1	2.3	1.2	0.6	0.1	0.0	0.0	0.0	16
17	0.1	3.4*	1.8	3.5	4.4	2.4	1.1	0.5	0.1	0.0	0.0	0.1	17
18	0.1	4.9	1.7	2.4	4.3	2.3	1.1	0.4	0.1	0.0	0.0	0.1	18
19	0.1	2.5	1.6	3.6	4.1	2.3	1.2	0.4	0.1	0.0	0.0	0.1	19
20	0.1	4.0	1.6	3.6	3.8	2.3	1.1	0.4	0.1	0.0	0.0	0.0	20
21	0.1	2.7	1.6	3.6	3.8	2.1	1.4	0.4	0.1	0.0	0.0	0.0	21
22	0.1	2.4	1.5	3.6	3.6	2.0	1.3	0.3	0.1	0.0	0.0	0.0	22
23	0.1	2.76 *	1.5	3.7	3.7	1.9	1.2	0.3	0.1	0.0	0.0	0.0	23
24	0.1	1.81	1.4	3.6	4.2	2.0	1.2	0.3	0.1	0.0	0.0	0.0	24
25	0.1	5.7	3.1	3.5	4.0	2.0	1.1	0.3	0.1	0.0	0.0	0.0	25
26	0.1	2.5	3.0	3.0	4.3	2.0	1.1	0.3	0.1	0.0	0.0	0.0	26
27	0.1	1.0	2.7	3.0	4.0	1.9	1.1	0.2	0.1	0.0	0.0	0.0	27
28	0.1	5.8	2.0	2.8	3.6	1.8	1.2	0.2	0.1	0.0	0.0	0.0	28
29	0.1	4.3	1.9	3.0	3.4	1.7	1.1	0.2	0.1	0.0	0.0	0.0	29
30	0.1	3.5	1.8	8.8	8.8	1.6	1.1	0.2	0.1	0.0	0.0	0.0	30
31	0.1		1.35 *	7.9		1.7		0.2		0.0	0.0	0.0	31
MEAN	0.1	22.0	15.4	7.6	9.5	2.4	1.4	0.6	0.1	0.0	0.0	0.0	MEAN
MAX.	0.1	276	159	53.0	73.0	32.5	3.4	1.1	0.2	0.1	0.0	0.1	MAX.
MIN.	0.0	0.1	1.4	2.8	2.4	1.6	1.1	0.2	0.1	0.0	0.0	0.0	MIN.
AC FT.	4	1308	948	470	524	149	82	36	8	1		1	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MINIMUM					TOTAL		
4.9	1750E	5.66	11	23	1940	0.0	10	1	0000	3537

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 42 58	120 11 20	SE 34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 698 cfs. Altitude of gage is 1,740 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	70	17	4550	4790	37	22	34.5	27	64	82	67	100	1
2	32	16	4670	455	29	17	5.6	70	56	50	17	2	2
3	16	16	4970	260	29	15	7.9	83	77	83	45	12	2
4	11	17	4910	14	27	11	14	67	97	76	44	7.1	4
5	9.4	19	4850	92	27	7.6	22	83	122	65	46	7.1	5
6	8.5	18	3800	77	27	1.3	39	68	95	70	51	6.4	6
7	8.7	17	404	73	36	6.6	60	111	93	68	54	5.4	7
8	8.2	17	182	52	3	6.2	66	116	88	70	54	5.4	8
9	8.5	17	91	59	28	5.9	50	98	69	67	43	5.3	9
10	10	16	70	57	27	11	47	79	67	74	31	5.6	10
11	10	15	65	53	26	14	70	108	66	62	37	5.2	11
12	10	15	130	50	23	3	78	110	77	90	40	5.2	12
13	10	17	86	48	21	10	44	95	80	94	57	6.2	13
14	9.9	23	63	47	20	8.2	84	84	86	61	61	7.2	14
15	11	30	49	41	19	7.2	52	94	79	92	64	7.1	15
16	11	15	45	37	19	11	51	73	103	77	52	6.4	16
17	12	18	44	37	18	15	51	67	120	67	47	6.4	17
18	12	19	43	36	20	20	46	86	122	70	51	6.6	18
19	12	21	43	35	18	17	28	81	114	57	52	7.2	19
20	13	17	42	33	16	14	47	83	113	45	53	6.4	20
21	12	14	42	31	17	12	82	66	112	50	51	6.1	21
22	12	13	41	31	17	11	107	62	89	52	51	5.5	22
23	12	47	40	29	16	7.2	94	93	92	32	51	6.6	23
24	12	112	39	28	16	74.1	117	57	65	45	51	6.6	24
25	12	63	42	28	16	5.6	85	78	78	46	45	6.0	25
26	12	39	52	28	17	6.3	88	95	62	43	47	7.2	26
27	13	24	44	27	17	4.4	104	103	54	41	47	7.2	27
28	13	2900	38	25	16	2.7	98	92	65	55	50	7.4	28
29	13	4680	191	26	16	2.4	56	75	115	71	54	7.4	29
30	15	4660	2910	57	24	2.4	51	67	133	76	62	5.8	30
31	17		4710	58		2.2		69		76	63		31
MEAN	14.1	430	1207	237	22.5	9.8	58.3	80.5	89.5	65.3	50.8	10.1	MEAN
MAX.	70.0	4680	4970	4790	37.1	22.2	117	116	133	94.0	67.3	100	MAX.
MIN.	8.2	13.3	38.0	25.4	16.2	2.4	3.5	27.2	54.7	32.0	3.3	5.4	MIN.
AC. FT.	866	25610	74210	14582	1248	605	3467	4953	7334	4017	3124	276	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
191	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	30600
	14500	17.10	1	7	65	2.4	7.2	7	27	400	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R N.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE			FROM	TO			
37 30 06	120 27 03	NE 17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE			1958		0.00	LOCAL

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and Lake McClure. Prior to November 1958, records available for a site 3.6 miles downstream. Altitude of gage is 221 feet. U. S. Geological Survey datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B0-159	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	190	55	4670	4710	241	93	32	84	94	75	39	43	1
2	189	52	4660	2760	170	93	40	86	85	74	40	56	2
3	160	52	5080	547	151	94	40	63	85	65	36	60	3
4	114	55	5060	286	137	91	38	55	92	60	30	49	4
5	91	55	4950	201	127	87	44	59	94	65	31	41	5
6	81	56	4800	164	125	84	40	82	113	67	25	36	6
7	83	57	1810	143	257	82	35	86	116	59	30	36	7
8	76	59	463	129	171	81	51	94	110	74	40	27	8
9	69	58	277	123	147	78	55	140	113	64	33	15	9
10	72	58	205	116	134	77	83	139	162	56	36	20	10
11	68	58	167	111	127	77	106	134	91	65	36	21	11
12	65	59	182	106	123	75	116	135	74	76	28	20	12
13	68	66	261	103	125	87	130	136	75	82	22	28	13
14	70	87	181	101	112	89	122	126	70	82	14	12	14
15	72	99	146	97	109	89	125	126	71	93	16	12	15
16	69	107	130	98	107	86	121	130	76	88	12	21	16
17	65	129	116	95	103	82	112	131	69	101	12	21	17
18	66	115	167	93	103	81	116	118	76	101	4.3	26	18
19	64	104	99	95	102	85	122	107	72	81	12	30	19
20	63	100	95	95	102	100	114	104	104	63	17	21	20
21	64	94	97	92	98	95	104	100	104	57	18	32	21
22	66	92	88	91	98	89	98	95	104	56	21	34	22
23	64	110	82	96	97	87	103	93	100	55	34	31	23
24	64	785	78	96	95	88	110	87	75	48	34	22	24
25	64	578	83	95	90	85	108	97	70	42	17	24	25
26	61	441	86	96	92	86	101	80	77	38	2.4	25	26
27	60	256	103	94	91	78	86	76	86	28	15	22	27
28	60	852	92	95	92	76	82	101	74	34	21	17	28
29	57	4340	145	98	74	74	92	121	81	10	21	14	29
30	53	4750	1960	151	63	89	113	58	58	15	28	18	30
31	54		4200	342		14		98		32	30		31
MEAN	75.4	459	1304	372	126	81.8	87.1	103	70.3	60.8	24.3	27.8	MEAN
MAX	190	4750	5080	4710	257	100	134	140	116	101	40	60	MAX
MIN	53.0	52.0	78.0	91.0	61.0	19.0	32.0	55.0	58.0	10.0	2.4	12.0	MIN.
AC.FT.	4883	27330	8016	22850	6994	5028	5183	6367	5373	3741	1497	1654	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
236	515	9.04	12	3	1010	0.2	9.62	7	26	0100	171000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
								1962		86.24	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream. Altitude of gage is approximately 110 feet. U. S. Coast and Geodetic Survey datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B08720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33	50	0.0	0.0	0.0	190	6.1	7.4	9.9	12	17	15	1
2	37	22	0.0	0.0	0.0	173	9.5	11	12	8.8	19	12	2
3	3.2	33	0.0	0.0	0.0	52	8.0	5.6 *	16	9.5	19	13	2
4	8.8 *	48	0.0	0.0	0.0	19	7.8	5.8	18	65	13	13	4
5	16	10	0.0	0.0	0.4	14	6.6 *	5.4	6.6	15	22	13	5
6	20	8.5	0.0	0.0	0.4	19	9.1	5.3	25	21 *	30	13	6
7	11	4.5	0.0	0.0	0.0	24	11	6.6	7.5	9.1	31	11	7
8	6.1	2.7	0.0	0.0	0.0	23	12	5.5	5.9	11	68	8.0 *	8
9	4.8	5.3	0.0	0.0	0.0	16	15	9.8	6.3	15	21	8.0	9
10	4.6	7.3	0.0	0.0	0.0	11	47	34	6.3	15	15	57	10
11	4.3	11	0.0	0.0	0.0	4.9	109	15	6.1	16	16	29	11
12	1.7	0.7	0.0	0.0	0.0	3.7	41	6.8	6.2	16	17	31	12
13	1.6	1.0	0.0	0.0	0.0	4.6	9.1	9.2	35	14	14	29	13
14	1.6	4.6	0.0	0.0	0.0	33	6.1	9.1	4.9	12	12	7.0	14
15	1.2	0.9	0.0	0.0	0.0	63	43	12	5.9	13	13	5.3	15
16	0.6	11	0.0	0.0	0.0	17	26	12 *	6.2	14	14	6.2	16
17	0.3	13 *	0.0	0.0	0.0	4.6	15	11	6.0	19	13	7.2	17
18	0.6	0.9	0.0	0.0	0.0	3.8	14 *	9.2	5.6	61	11	6.2	18
19	1.4	0.3	0.0	0.0	0.0	8.3	7.6	29	7.3	14	13	5.6	19
20	1.4	0.1	0.0	0.0	0.0	6.4	6.0	8.9	7.3	13	15	5.8	20
21	0.1	0.0	0.0	0.0	0.0	8.0 *	4.7	14	8.1	12	16	10	21
22	0.0	0.1	0.0	0.0	0.0	5.6	5.1	32	7.3	9.2	16	4.0	22
23	0.0	0.5	0.0	0.0	0.0	5.4	7.6	47	10	8.5	21	3.6	23
24	0.0	0.5	0.0	0.0	0.0	19	5.2	17	6.7	11	29	3.6	24
25	0.0	0.2	0.0	0.0	0.0	5.7	5.5	11	9.4	15	10	3.8	25
26	0.0	0.0	0.0	0.0	0.0	3.6	7.9	7.4	29	16	7.1	3.7	26
27	0.0	0.0	0.0	0.0	37	3.3	11	6.8	42	14	7.1	3.4	27
28	0.0	0.0	0.0	0.0	242	3.2	8.9	9.4	33	12	15	3.7	28
29	0.0	0.0	0.4	0.0	0.0	4.4	6.4	9.8	7.9	16	33	3.8	29
30	0.0	0.0	0.2	0.0	0.0	7.0	5.8	8.6	11	19	10	4.9	30
31	2.5		0.0	0.0		5.6		7.5		19	15		31
MEAN	5.2	7.9	0.0	0.0	10.0	24.6	15.9	12.6	12.3	16.9	18.5	11.3	MEAN
MAX	37.0	50.0	0.4	0.0	242	190	109	47.0	42.0	65.0	68.0	57.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0	3.2	4.7	5.3	4.9	8.5	7.1	3.4	MIN
AC FT	321	468	1		555	1510	946	772	731	1042	1135	674	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
11.3		269	4.17	2	28	1450	0.0		10	21	2400	8154

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. Y. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 24 59	121 00 45	SW 8 6S 9E	2650E	12.08	2-1-63	DEC 57-DATE		1957		0.00	LOCAL

Station located 0.1 mile downstream from River Road Bridge, 3.7 miles northeast of Crows Landing. This includes drainage returned to San Joaquin River. Daily flows are estimated during periods of backwater from San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs. Altitude of gage is approximately 50 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	493	287	4420	4020 E	822	584	436	377	337	268	250	258	1
2	490	282	4990	5590 E	901	585	415	384	356	269	240	253	2
3	509	288	5150	5370 E	837	539	410	372 *	349 *	279	234 *	268	3
4	508	327	5410	3960 E	781	495	402	346	323	306	243	279	4
5	490	319	5630	3020	763	470	395 *	355	314	282	251	277	5
6	470	321	5730	2320	755	450	377	356	346	290 *	255	280	6
7	442	319	5670	1930	719	437	373	343	372	264	253	262	7
8	444	311	4110	1710	765	433	377	336	390	272	256	247 *	8
9	425	309	2120	1610	799	480	402	396	391	267	218	239	9
10	405	295	1480 E	1540	803	409	448	441	374	275	229	260	10
11	403	297	1300	1430	793	384	540	443	350	276	234	268	11
12	382	303	1190	1290	754	376	540	439	327	267	236	270	12
13	364	325	1110	1190	687	399	522	462	334	255	238	263	13
14	366	374	1110	1120	648	418	529	466	317	262	254	257	14
15	375	412	1030	1060	615	414	516	448	294	256	255	259	15
16	354 E	466	938	1020	588	376	479	455	290	268	251	241	16
17	327 E	567	850	957	572	364	441	441	289	269	232	243	17
18	315 E	634	787	918	554	390	425	414	266	280	221	236	18
19	311 E	711	743	895	540	389	406	431	284	264	218	235	19
20	301 E	739	707	849	526	395	408	408	292	276	224	236	20
21	296 E	732	686	814	524	391	418	395	293	265	237	238	21
22	304 E	738	686	786	530	425	427	394	304	254	247	235	22
23	311 E	781	687	760	522	426	406	407	268	243	231	232	23
24	317 E	864	670	731	514	439	400	357	286	267	243	232	24
25	323 E	1190	671	705	506	434	410	348	309	253	241	246	25
26	314 E	1510	674	696	506	438	390	356	318	235	257	260	26
27	301 E	1630	692	675	504	439	400	354	331	228	262	247	27
28	296 E	1610	709	648	581	440	407	343	328	227	280	236	28
29	287 *	1720	737	637	637	445	369	362	296	226	255	229	29
30	283	3170	847	647	647	450	372	372	278	217	241	217	30
31	272		1860 E	675	675	456	367	367	233	233	239	239	31
MEAN	370	728	2045	1599	658	436	428	393	322	261	243	250	MEAN
MAX.	509	3170	5730	5590	901	585	540	466	391	308	280	280	MAX.
MIN.	272	282	670	637	504	364	369	336	278	217	218	217	MIN.
AC. FT.	22770	43300	125700	98330	36510	26820	25470	24140	19130	16060	14930	14880	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
647	5970	49.06	1	2	2400	209	37.71	7	30	1120	468100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM		
			CF5	GAGE HT.			DATE	FROM			TO	
37 26 52	121 00 44	NW 8 6S 9E		61.9	4-7-58			OCT 65-DATE	41-SEP 65	1959	0.00	USED
										1959	0.00	USGS
										1959	3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B07080	SAN JOAQUIN RIVER AT GRAYSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	860	460	3640	3330	1230	970							1
2	860	455	4050	4090	1370	970							2
3	880	460	4260	4420	1340	955							3
4	890	485	4360	4350	1270	890							4
5	880	495	4230	3930	1230	870							5
6	840	505	4490	3400	1260	835							6
7	820	510	4530	2910	1330	790							7
8	795	485	4470	2580	1300	735							8
9	760	480	3910	2330	1300	725							9
10	760	460	2990	2170	1280	705							10
11	755	445	2370	1910	1280	680							11
12	760	465	2110	1870	1250	710							12
13	765	500	1900	1780	1180	770							13
14	780	570	1800	1690	1110	790							14
15	820	620	1770	1620	1060	760							15
16	835	670	1680	1510	1020								16
17	730	810	1580	1450	995								17
18	640	910	1490	1380	970								18
19	595	990	1420	1360	955								19
20	550	1050	1360	1320	945								20
21	505	1110	1320	1280	920								21
22	470	1140	1330	1230	920								22
23	445	1210	1330	1200	920								23
24	430	1310	1290	1160	880								24
25	420	1510	1180	1130	885								25
26	420	2110	1120	1110	885								26
27	420	2200	1110	1110	870								27
28	420	2350	1130	1070	900								28
29	450	2200	1180	1060									29
30	480	2760	1250	1080									30
31	470		1730	1090									31
MEAN	661	991	2335	1997	1102								MEAN
MAX.	890	2760	4530	4420	1370								MAX.
MIN.	420	445	1110	1060	870								MIN.
AC. FT.	40671	58959	143564	122817	61200								AC FT.

STATION DISCONTINUED MARCH 16, 1966

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 R - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 33 47	121 09 06	NW 25 4S 7E	23900	45.15	3-8-41	JUL 28-MAR 66			1959	0.00	USED
									1960	0.00	USCGS
									1960	3.81	USED

Station located at Laird Slough Bridge, 5 miles above the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in figures shown. Records furnished by City of San Francisco. Station discontinued on March 16, 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1180	1570	2570	2900	1500	1800	54	18	15	19	7.7	11	1
2	1150	1480	2570	2650	1530	1610	22	22	15	19	4.4	42	2
3	1150	1490	2580	2210	1500	1830	21	18	16	23	9.2	18	3
4	1120	1430	2610	1740	1470	1830	21	16	16	26	8.7	7.0	4
5	1360	1360	2560	1240	1350	1370	20	16	16	6.6	7.7	5.3	5
6	1490	1240	2570	1210	1330	1150	20	16	15	7.1	6.1	7.4	6
7	1490	1200	2650	1240	1570	1170	22	16	16	5.1	7.4	9.7	7
8	1340	1380	2660	1160	1530	1180	21	17	18	4.7	1.2	7.3	8
9	1340	1400	2660	1130	1530	1220	22	16	17	4.7	4.4	6.2	9
10	1550	1400	2660	1390	1600	829	22	16	15	4.6	8.0	2.7	10
11	1800	1300	2690	2030	1550	610	21	16	15	4.7	1.9	7.0	11
12	2190	1430	2710	2030	1490	606	22	26	12	5.1	7.0	7.0	12
13	2290	1320	2730	2030	1330	611	21	16	11	1.6	18	7.0	13
14	2380	1200	2760	1720	1520	636	20	15	22	2.4	4.9	4.4	14
15	2470	1310	2840	1450	1450	594	19	14	14	6.0	7.7	7.0	15
16	2480	1480	2880	1250	1460	597	19	15	13	5.4	7.0	7.0	16
17	2410	1310	2750	1350	1440	614	18	19	14	7.4	4.7	8.8	17
18	2340	1340	2680	1370	1430	365	21	19	11	8.4	4.6	3.1	18
19	2060	1650	2840	1320	1330	21	29	18	11	5.2	8.8	8.9	19
20	1240	2360	2870	1330	1300	17	19	18	11	5.7	4.9	4.1	20
21	817	2370	2860	1150	1440	61	20	16	12	5.0	4.2	4.4	21
22	818	2360	2810	1030	1280	68	20	16	12	6.1	4.7	4.0	22
23	722	2580	2470	1020	1330	63	21	16	16	3.4	4.3	4.7	23
24	718	2660	1070	1190	1400	59	19	15	30	4.6	4.2	4.8	24
25	856	2950	639	1240	1400	63	18	16	22	4.7	4.0	4.0	25
26	820	2930	687	1270	1280	62	18	16	20	6.0	4.0	4.4	26
27	1280	2590	1170	1260	1220	39	17	16	22	6.0	6.3	4.4	27
28	2250	296	1120	1260	1380	63	17	15	22	6.9	4.0	1.7	28
29	2140	2570	1090	1240	62	16	14	21	6.4	4.1	4.8	29	
30	2080	2900	1910	1460	1220	75	16	14	18	4.9	11	15	30
31	2100	2960	1460	1460	74	14	14	14	7.0	12	12	31	31
MEAN	1595	1600	2335	1483	1428	626	21.2	16.7	16.0	8.1	9.1	12.1	MEAN
MAX	2460	2960	2960	2900	1600	1830	94.0	26.0	30.0	28.0	18.0	48.0	MAX.
MIN	718	1200	639	1020	1220	17.0	16.0	14.0	11.0	4.0	1.0	1.0	MIN.
AC.FT.	98050	107100	143600	91160	79280	38590	1261	1025	782	500	561	721	AC.FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # — E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	77	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
		3.2	70.43	11	23	1:00	3.2	66.77	7	3	0900	562800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1:4 SEC. T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW 20 3S 14E	48200	188.0	12-8-50	OCT 36-SEP 60	OCT 61-DATE	1937		0.00	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by reservoirs and powerplants. Drainage area is 1,540 square miles. Altitude of gage is approximately 175 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	B04165	TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1280	1600	2540	2952	1500								1
2	1280	1500	2520	2845	1530								2
3	1260	1470 *	2530 *	2380	1510 *								3
4	1220	1430	2560	1960 *	1500								4
5	1370	1400	2540	1440	1440								5
6	1600 *	1310	2520	1340	1450								6
7	1600	1250	2620	1320	1490								7
8	1540	1260	2620	1310	1580								8
9	1430	1410	2640	1250	1530								9
10	1600	1420	2660	1270	1590								10
11	1790	1350	2670	2060	1590								11
12	2190	1360	2690	2110	1510								12
13	2350	1380	2700	2110	1440								13
14	2400	1330	2780	1950	1460								14
15	2530	1260	2810	1430	1520								15
16	2510	1490	2870	1370	1510								16
17	2480	1400	2790	1380	1470								17
18	2450	1370	2710	1450									18
19	2130	1480	2610	1440									19
20	1660	2310	2850	1420									20
21	918	2320	2880	1250									21
22	879	2300	2860	1160									22
23	820	2520	2690	1080									23
24	740	2680	1370	1120									24
25	798	2590	855	1240									25
26	849	2510	620	1320									26
27	925	2550	991	1290									27
28	2150	2530	1190	1290									28
29	2160	2530	1120	1290									29
30	2070	2550	1790	1350									30
31	2060		2990	1390									31
MEAN	1646	1795	2342	1567									MEAN
MAX	2530	2680	2990	2950									MAX
MIN	740	1250	620	1080									MIN
AC. FT.	101200	106800	144000	96320									AC FT

STATION DISCONTINUED FEBRUARY 18, 1966

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET	
DISCHARGE	DISCHARGE	GAGE HT	NO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC. T & R M.D.B. & M.	OF RECDRO			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FRDM	TO		
37 38 08	120 37 03	NW35 3S 12E	49800	128.2	12-B-50	JUL 28-OCT 36 JAN 37-FEB 38 JUN 38-FEB 66		1930	1940	106.20 0.00	USCGS USCGS

Station located at highway bridge, 7.5 miles east of Waterford. Flow regulated by reservoirs and powerplants. Altitude of gage is approximately 110 feet (from U. S. Geological Survey topographic map). Station discontinued on February 18, 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1390	1600	2660	2800	1590	1690	184	118	97	89	87	80	1
2	1390	1470	2660	2740	1620	1990	163	115	97 *	88	77 *	81 *	2
3	1380	1430 *	2660 *	2290	1610 *	2020	127	110 *	105	89	73	81	3
4	1340	1380	2670	1900 *	1570	2000	121	111	100	88	75	92	4
5	1450	1380	2660	1420	1540	1650	116	110	97	87 *	80	93	5
6	1720 *	1320	2650	1280	1520	1350	108 *	110	98	90	85	87	6
7	1710	1250	2730	1240	1520	1330	110	114	96	87	80	81	7
8	1680	1240	2720	1260	1670	1340	113	111	99	90	77	83	8
9	1490	1400	2720	1180	1620	1340	124	115	96	88	80	90	9
10	1670	1430	2730	1160	1670	1340	128	115	100	87	77	91	10
11	1860	1390	2740	1880	1700	783	127	118	95	89	75	90	11
12	2240	1360	2760	2030	1580	738	123	117	97	84	78	96	12
13	2390	1440	2770	2040	1530	725	124	111	95	83	80	93	13
14	2420	1400	2810	1950	1500	727	123	114	93	82	83	91	14
15	2590	1290	2840	1410	1600	708	122	107	91	79	83	94	15
16	2550	1480	2870	1320	1580	707	120	101	95	77	82	95	16
17	2530	1510	2860	1320	1540	711	119	100	96	77	78	92	17
18	2480	1440	2750	1410	1530	706	119	98	90	73	75	92	18
19	2220	1490	2620	1410	1480	294	123	103	94	76	77	97	19
20	1880	2320	2730	1400	1400	173	128	108	91	74	82	94	20
21	981	2380	2830	1280	1460	144	120	108	93	78	82	90	21
22	951	2350	2790	1180	1460	171	118	109	95	79	82	91	22
23	929	2570	2730	1080	1430	188	118	108	90	80	82	92	23
24	920	2730	1470	1120	1500	176	118	101	89	75	80	89	24
25	798	2700	987	1250	1530	173	117	100	88	79	76	88	25
26	928	2580	688	1360	1500	168	118	97	91	83	80	88	26
27	879	2630	861	1340	1400	142	117	104	91	80	81	87	27
28	1970	2630	1210	1330	1430	134	117	103	84	80	79	89	28
29	2140	2620	1120	1340	1400	163	117	100	88	84	81	89	29
30	2070	2630	1560	1390	1400	174	116	99	92	85	85	86	30
31	2010		2820	1420		187		98		87	83		31
MEAN	1705	1828	2377	1533	1539	785	123	108	94.1	82.8	79.8	89.4	MEAN
MAX	2590	2730	2870	2800	1700	2020	184	118	105	90	87	97	MAX.
MIN.	798	1240	688	1080	1400	134	108	97	84	73	73	80	MIN.
AC FT.	104800	106800	146100	94270	85450	48280	7335	6611	5599	5092	4909	5320	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
860	2910	74.82	12	17	0000	68	70.01	7	18	0430	622600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M O.B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		0.00	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Altitude of gage is approximately 80 feet. U. S. Coast and Geodetic Survey datum. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	004130	DRT CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	91	28	43	459	419	30	99	73	55	29	46	29	1
2	81	29	43	245	169	31	109	67	42	32	34	37	2
3	80	28	39	135	135	31	111	60	45	37	33	37	2
4	92	33	32	103	78	30	109	63	55	31	35	44	4
5	116	31	29	90	74	29	103	54	52	26	32	44	3
6	142	29	26	98	766	28	88	54	58	34	32	38	6
7	140	25	24	97	1200	26	86	63	59	31	31	42	7
8	158	23	23	73	276	24	84	50	62	24	34	42	8
9	162	22	22	57	145	23	79	58	55	27	36	31	9
10	128	22	22	48	108	23	102	50	48	31	38	28	10
11	119	23	24	43	72	22	108	76	48	30	39	29	11
12	109	23	27	41	79	23	106	74	52	28	33	36	12
12	98	23	24	37	69	22	98	74	49	25	27	43	13
14	95	42	40	35	57	23	78	77	47	33	28	46	14
15	161	55	55	32	50	22	46	63	41	31	31	52	15
16	124	39	43	30	45	22	43	57	44	31	29	56	16
17	90	120	34	29	40	22	52	48	41	34	31	46	17
18	69	147	28	28	38	21	75	52	35	44	33	39	18
19	61	136	26	27	35	21	75	50	27	31	29	46	19
20	58	92	24	27	35	22	65	49	25	30	27	50	20
21	67	85	23	25	34	37	59	49	27	30	26	52	21
22	63	64	22	25	33	35	68	52	30	32	32	37	22
23	77	107	21	24	34	34	67	50	28	32	35	46	23
24	60	329	21	24	31	55	71	44	27	30	35	44	24
25	39	360	21	24	29	61	60	43	28	28	28	48	25
26	29	223	21	24	29	81	75	44	28	26	32	46	26
27	27	157	21	24	29	141	70	45	29	27	32	50	27
28	27	97	45	25	29	98	67	48	28	30	41	45	28
29	27	62	81	25	29	118	77	48	26	34	34	51	29
30	26	49	1290	126	52	52	72	52	25	33	47	55	30
31	26		1180	970	63	63	54	54		34	33		31
MEAN	85.2	83.4	109	98.4	150	43.2	80.1	58.1	40.0	30.0	31.8	43.0	MEAN
MAX.	162	360	1290	970	1220	141	111	76.0	62.1	37.0	54.0	56.0	MAX.
MIN.	26.0	22.0	21.0	24.0	20.0	21.0	43.0	43.0	25.0	24.0	26.0	28.0	MIN.
AC.FT.	5240	4965	6692	6050	6327	2656	4764	3576	2446	1878	2077	2557	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
85.2	2660	61.22	12	30	1200	16.0	67.77	7	13	0000	51170

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USGCS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. Altitude of gage is approximately 80 feet. U. S. Coast and Geodetic Survey datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1600	2100	2840 E	3620 E	2730	1450	403	314	259	231	216	237	1
2	1590	1790	2840 E	3370 E	1840	1680	398	323	263 *	262	191 *	235 *	2
3	1620	1690	2840 E	3020 E	1760	1810	413	306	259	234	249	245	3
4	1600	1660	2840 E	2600 E	1710	1710	381	307	261	241	216	250	4
5	1600	1630	2860 E	2200 E	1650	1830	365	310	267	229	218	242	5
6	1730	1610	2860 E	1800 E	1710	1620	352 *	318	259	218 *	214	227	6
7	1910	1530	2860 E	1670 E	2870	1370	337	321	274	211	212	223	7
8	1920	1460	2880 E	1680	2220	1340	343	322	264	226	218	212	8
9	1920	1490	2880 E	1620	1880	1330	343	325	255	224	221	214	9
10	1830	1570	2900 E	1540	1780	1350	409	336	249	230	215	220	10
11	1930	1600	2900	1600	1770	1270	399	306	246	223	227	217	11
12	2090	1570	2910	2050	1740	967	386	357	249	212	218	211	12
13	2340	1610	2870	2180	1670	884	370	286	243	212	220	212	13
14	2500	1640	2860	2180	1585	851	362	292	248	217	214	207	14
15	2610	1570	2920	2230	1625	823	342	302	233	245	213	224	15
16	2750	1560	2930	1640	1640	798	331	301	232	240	183	226	16
17	2630	1730	2960	1550	1630	787	330	284	232	231	194	225	17
18	2590	1730	2870	1560	1600	791	342	284	233	222	198	218	18
19	2540	1700	2790	1590	1590	773	347	276	233	221	202	227	19
20	2300	1770	2700	1580	1540	552	352	285	234	210	215	228	20
21	1890	2330	2830	1550	1490	455	344	285	234	196	215	225	21
22	1360	2440	2890	1420	1540	434	343	281	221	201	203	208	22
23	1260	2520	2860	1330	1520	423	337	279	225	198	203	202	23
24	1190	2760	2670	1270	1500	425	338	281	230	214	208	211	24
25	1180	3070	1740	1320	1550	417	338	326	224	211	215	202	25
26	1110	3020	1280	1380	1550	427	337	277	231	207	215	188	26
27	1140	2880	1090	1430	1520	409	323	264	236	197	221	193	27
28	1260	2860	1200	1420	1460	416	319	270	233	193	221	199	28
29	2000	2810	1480	1420		384	331	272	229	190	232	212	29
30	2140	2830	1670	1500		394	325	268	225	207	240	254	30
31	2120		3350	1670		393		259		227	234		31
MEAN	1880	2018	2592	1838	1738	921	355	297	243	219	213	220	MEAN
MAX.	2750	3070	3350	3620	2870	1830	413	357	274	262	240	254	MAX.
MIN.	1110	1460	1090	1270	1460	384	319	259	221	190	183	188	MIN.
AC. FT.	115600	120000	159400	113000	96560	56650	21100	18280	14440	13450	13090	13080	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
1042											754700	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12-9-50	30-DATE			1959	0.00	USED
									1960	0.00	USCGS
									1960	3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Records furnished by City of San Francisco through February. The Department of Water Resources began operating this station in April.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	807060	SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2360	2410	5450	5660	3490	2350							1
2	2380	2240	6130	6530	3370	2220							2
3	2420	2090	6540	7130	3280	2640							3
4	2450	2070	6720	7160	3180	2600							4
5	2410	2070	7080	6520	3080	2570							5
6	2390	2080	7260	5540	3100	2480							6
7	2560	2030	7350	4740	3930	2170							7
8	2560	1940	7300	4270	3870	2040							8
9	2560	1910	6710	3990	3370	2020							9
10	2450	1980	5360	3800	3220	2030							10
11	2470	2010	4810	3690	3180	1970							11
12	2630	2060	4570	3930	3180	1670							12
13	2800	2110	4410	4030	3040	1610							13
14	2950	2220	4280	3930	2940	1570							14
15	3090	2240	4260	3850	2810	1510							15
16	3260	2220	4210	3430	2720	1430							16
17	3140	2430	4140	3230	2650								17
18	2980	2600	4140	3130	2590								18
19	2900	2650	4120	3130	2620								19
20	2740	2740	4010	3080	2540								20
21	2520	3130	4000	3010	2460								21
22	1930	3360	4090	2900	2450								22
23	1720	3460	4090	2780	2420								23
24	1650	3720	4020	2540	2360								24
25	1530	4170	3290	2410	2360								25
26	1470	4470	2770	2410	2380								26
27	1540	4570	2460	2440	2340								27
28	1530	4620	2490	2390	2290								28
29	2080	4590	2800	2350									29
30	2420	4690	2950	2450									30
31	2430		4260	2890									31
MEAN	2397	2829	4712	3850	2901								MEAN
MAX	3260	4690	7350	7160	3930								MAX
MIN	1470	1910	2460	2350	2290								MIN
AC. FT.	1474.12	1683.57	2897.26	2367.07	1610.98								AC. FT.

STATION DISCONTINUED MARCH 17, 1966

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R - E AND *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE					
37 38 10	121 12 54	NE 32 3S 7E	38400	38.43	4-2-40	MAR 33-MAR 66		1959	0.00	USED
								1960	0.00	USCGS
								1960	3.51	USED

Station located 2.9 miles above the mouth of the Stanislaus River. Records furnished by City of San Francisco.
Station discontinued on March 17, 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2400	2490	5430	5750	3660	2400	1000	642	527	331	503	488	1
2	2450	2330	6130	6720	3570	2560	952	686	481	371	456	481	2
3	2500	2200	6620	7350	3480	2700	930	630	478	368	417	495	3
4	2520	2180	6970	7410	3380	2680	930	606	488	397	337	578	4
5	2480	2180	7290	6700	3290	2640	821	634	511	474	312	594	5
6	2460	2180	7490	5620	3320	2540	798	682	546	413	322	556	6
7	2640	2130	7580	4790	4040	2240	744	674	563	397	331	560	7
8	2660	2040	7460	4370	4030	2120	740	720	574	374	340	507	8
9	2640	2050	6790	4130	3550	2090	812	776	556	394	352	511	9
10	2520	1980	5510	3940	3410	2100	1040	889	546	384	296	531	10
11	2550	2130	4780	3850	3380	2020	1130	912	492	424	290	590	11
12	2700	2190	4560	4060	3360	1730	1190	912	542	436	325	582	12
13	2850	2240	4410	4140	3240	1660	1090	870	474	407	322	606	13
14	3000	2350	4290	4080	3130	1620	989	855	397	377	343	574	14
15	3160	2370	4260	3980	3000	1560	969	875	349	417	404	578	15
16	3310	2340	4220	3620	2850	1500	860	880	331	424	377	598	16
17	3180	2510	4150	3430	2780	1420	749	830	325	397	343	586	17
18	3030	2740	4210	3350	2720	1400	715	803	334	407	328	614	18
19	2950	2800	4210	3330	2770	1440	686	744	394	390	328	634	19
20	2790	2890	4120	3280	2680	1230	670	686	424	334	328	650	20
21	2560	3290	4120	3220	2590	1110	642	658	381	303	394	658	21
22	2040	3490	4200	3100	2580	1000	670	674	334	287	499	666	22
23	1800	3600	4200	2980	2520	1010	696	690	394	272	492	634	23
24	1750	3830	4110	2700	2430	1010	710	622	444	306	400	622	24
25	1640	4210	3510	2500	2430	947	715	586	410	361	448	658	25
26	1580	4470	2980	2490	2430	947	682	556	467	284	456	662	26
27	1640	4560	2680	2490	2400	964	662	495	527	275	515	658	27
28	1620	4610	2730	2450	2350	1020	690	470	474	263	515	674	28
29	2150	4560	3050	2410	2410	980	715	467	444	275	570	646	29
30	2480	4690	3230	2520	2520	902	662	531	377	293	535	658	30
31	2510		4470	3060		912	549		420	507			31
MEAN	2470	2921	4831	3994	3049	1627	822	697	453	363	400	595	MEAN
MAX.	3310	4690	7580	7410	4040	2700	1190	912	574	474	570	674	MAX.
MIN.	1580	1980	2680	2410	2350	902	642	467	325	263	290	481	MIN.
AC. FT.	151900	173800	297000	245600	169300	100100	48890	42850	26940	22320	24570	35400	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM			TOTAL			
		GAGE HT.	NO.	DAY	TIME	DISCHARGE	GAGE HT.	NO.	DAY	TIME	ACRE FEET
1849	7600	24.70	12	7	1130	245	13.13	7	27	2400	1339000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 26	121 13 37	SW29 3S 7E	39.8	12-9-50	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED	
					OCT 65-DATE	APR 52-SEP 65	1959	1959	0.00	USCGS	
									3.41	USED	

Station located at State Highway 132 Bridge, 13 miles west of Modesto.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	36	352	869 E	1730	1650	77	79	45	47	36	29	31	1
2	30	363 *	936 E	1670	1620	77	79	38	33	34	24	31	2
3	34	367	1740 E	1650	1600	94	79	36	34	34	20	29	3
4	30	368	1760 E	1650	1600	100	78	35	36 E	34	18	27	4
5	33	366	1760 E	1670	1650	114	57	38	36 E	26	18	27	5
6	36	378	1370 #	1660 *	2040	114	49	39	35 E	33	19	26	6
7	29	378	858	1670	1630	116	51	41	36 E	28	19	22	7
8	26	371	853	1660	1330	115	51	41	35 E	26	19	22	8
9	29	455	852	1650	1560	115	52	47	34 E	38	18	22	9
10	39	894	847	1650	155	107	58	52	34 E	27	20	25	10
11	41	1040	850	1640	1550	105	49	50	34 E	24	27	25	11
12	35	1030	862	1640	1540	114	46	38	33 E	24	24	22	12
13	41	913	845	1630	1530	116	41	34	33 E	24	22	22	13
14	35	898	821 E	1620	1150	119	38	36	32 E	26	20	26	14
15	50	618	826 E	1610	663	116	40	35	31 E	23	21	28	15
16	169	644	880 E	1610	646	116	47	34	26	23	18	27	16
17	179	894	1650 E	1610	717	115	46	37	26	20	21	26	17
18	251	1120	1710	1610	1130	116	50	35	26	25	20	26	18
19	382	941	1690 E	1590	680	117	49	35	25	29	18	24	19
20	369	888	1690 E	1580	679	123	49	40	26	26	20	25	20
21	368	879	1690 E	1560	542	121	43	38	40	20	26	22	21
22	365	871	1670	1540	83	123	34	31	44	19	29	21	22
23	341	1080	1650	378	39	122	36	29	37	22	24	20	23
24	435	990	1650	156	44	103	38	34	39	20	22	24	24
25	353	906	1680	84	54	93	35	33	39	19	29	35	25
26	358	952 E	1660	68	51	94	40	29	39	20	26	19	26
27	362	930 E	1650	60	43	93	39	31	33	19	29	16	27
28	373	914 E	1650	53	87	90	41	29	29	21	30	22	28
29	368	896 E	1680	1010	76	76	42	30	29	20	27	23	29
30	361	884 E	2070	1940	74	76	46	30	27	21	29	18	30
31	352	1860	1760	76	76	76	43	43	33	33	27	27	31
MEAN	191	753	1380 E	1336	981	105	49.3	36.9	34.8 E	22.8	22.7	24.4	MEAN
MAX	435	1120	2070	1940	2040	123	74.0	52.8	47.3	38.0	30.0	35.0	MAX
MIN.	26.0	352	821 E	53.0	39.0	74.0	34.0	29.0	25.0	15.0	18.0	16.0	MIN.
AC. FT.	11720	44790	84850 E	32130	34660	6440	2936	2267	1935 E	1575	1410	1454	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE MT.	MO	DAY	TIME	DISCHARGE	GAGE MT.	MO	DAY	TIME	ACRE FEET
408		2620	6.90	12	30	0.00	12.0	1.29	6	26	1700	496000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	52000	30.05	11-21-50	JUN 28-DEC 39				0.00	LOCAL
				31.8	12-23-55	APR 40-DATB					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter. Altitude of gage is approximately 70 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B03145	STANISLAUS RIVER AT RIVERBANK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	109	404	911	1930	1810	148	150	119	93	73	73	78	1
2	112	405	911	1770	1780	140	140	120	90	72	71	79	2
3	110	409	1470	1730	1740	149	139	120	89	76	68	73	3
4	112	408	1730	1710	1740	160	140	112	89	73	76	70	4
5	108	408	1750	1750	1720	182	132	127	89	76	73	71	5
6	110	413	1640	1760	2320	185	127	117	88	77	70	74	6
7	114	418	997	1740	1910	188	120	111	86	76	72	77	7
8	101	419	957	1740	1580	187	143	113	86	76	71	77	8
9	102	404	949	1740	1580	182	151	108	85	76	70	73	9
10	112	734	943	1740	1690	183	164	111	85	76	67	72	10
11	127	889	941	1750	1670	169	160	118	84	75	66	76	11
12	126	994	955	1740	1670	174	155	118	82	75	66	78	12
13	115	922	952	1720	1650	182	125	112	83	72	74	78	13
14	115	922	929	1720	1510	185	113	106	82	71	71	81	14
15	117	788	939	1730	808	189	120	100	81	67	70	79	15
16	170	545	939	1720	757	186	115	101	75	72	69	80	16
17	269	882	1460	1720	695	182	111	100	65	70	64	79	17
18	274	1000	1700	1730	1220	182	118	100	87	70	70	74	18
19	415	973	1720	1720	806	187	110	101	82	67	71	76	19
20	438	893	1730	1710	769	231	115	97	71	66	71	76	20
21	434	884	1720	1690	751	442	125	97	68	69	73	83	21
22	450	884	1720	1670	339	202	123	96	69	64	73	83	22
23	409	1030	1710	965	157	205	123	96	72	64	75	83	23
24	454	992	1700	336	126	186	111	96	73	64	74	84	24
25	423	982	1730	216	128	169	114	96	74	67	71	88	25
26	407	955	1720	158	127	166	117	95	76	63	71	89	26
27	411	928	1710	140	120	180	113	95	75	62	72	91	27
28	421	916	1710	131	134	187	110	95	75	64	71	85	28
29	419	921	1880	446	174	105	95	75	70	75	75	88	29
30	418	919	2150	2500	159	159	110	94	77	72	76	94	30
31	410		1940	2030	139			93		74	77		31
MEAN	255	755	1426	1440	1118	180	127	105	80.2	70.7	71.5	75.6	MEAN
MAX	454	1030	2150	2030	2320	242	164	127	92.0	78.0	77.0	94.0	MAX.
MIN	101	404	911	131	120	139	105	93.5	65.0	64.0	64.0	70.0	MIN.
AC. FT.	15690	44910	87700	88570	62100	11060	7535	6464	4772	4946	4385	4739	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM				TOTAL	
472	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
	282.1	78.70	2	6	0940	58.0	7.06	7	27	1440	342300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
34 44 31	120 56 21	SW 24 2S 9E	85800	103.18	12-23-55	JUL 40-DATE			1940	0.00	USCGS
Station located at Burneyville Bridge, immediately north of Riverbank. Drainage area is 1,055 square miles.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	0 111	TRUCKEE RIVER AT RIVERTON, N. V.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	418	482	766	1050	1820	266	222	176	141	127	157	111	1
2	457	479	763	1080	1750	261	278	182	133	113	104	118	2
3	484	478	1040	1500	1730	260	232	175	140	115	101	104	3
4	483	484	1540	1750	1730	262	215	181	165	116	117	109	4
5	423	484	1600	1750	1710	267	214	172	180	134	77	128	5
6	405	432	1700	1490	1600	278	217	184	144	127	98	114	6
7	421	489	1640	1480	1600	276	217	184	149	109	102	111	7
8	445	492	1070	1770	1800	273	215	167	164	111	109	120	8
9	433	488	1020	1750	1570	270	227	171	161	101	100	128	9
10	434	504	998	1750	1660	268	293	207	170	119	86	114	10
11	432	747	994	1750	1670	267	304	204	170	116	75	125	11
12	380	894	997	1750	1660	260	290	213	166	113	78	139	12
13	372	867	993	1740	1660	257	310	203	172	121	104	139	12
14	325	955	886	1750	1640	255	257	199	147	128	102	121	14
15	409	949	966	1740	1350	292	224	197	140	114	77	120	15
16	438	797	968	1740	1300	349	214	205	137	125	57	127	16
17	424	754	1080	1740	958	314	210	197	144	133	84	120	17
18	428	962	1510	1740	1020	306	224	174	131	132	73	128	18
19	409	1080	1640	1730	1210	304	226	187	152	174	84	147	19
20	508	1010	1670	1730	968	345	200	162	165	119	94	143	20
21	521	958	1680	1720	935	406	181	178	116	101	120	121	21
22	521	948	1690	1710	832	384	179	175	141	81	129	169	22
23	530	974	1690	1630	501	349	204	190	132	92	122	145	23
24	494	1120	1680	723	377	334	219	203	140	112	108	136	24
25	522	1080	1690	634	321	311	238	200	137	113	114	134	25
26	490	1030	1710	510	298	275	235	178	137	140	125	152	26
27	479	1010	1710	426	281	250	206	163	127	122	142	139	27
28	477	983	1710	379	263	287	200	149	112	75	145	136	28
29	486	971	1790	351	296	204	164	101	101	131	131	142	29
30	492	969	2080	329	274	183	160	102	102	118	136	142	30
31	490		2160	1820		240		161		134	131		31
MEAN	453	801	1413	1499	1236	292	227	184	148	117	110	129	MEAN
MAX.	530	1120	2160	2000	2150	406	310	213	179	138	145	169	MAX.
MIN.	325	478	963	351	263	240	179	149	101	91.0	73.0	02	MIN.
AC. FT.	27830	47640	86880	72200	68650	17950	13510	11320	6810	7196	6760	7654	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE 547	DISCHARGE 24.0	MAXIMUM GAGE HT. 36.40	MO. DAY TIME 11 000	MINIMUM DISCHARGE 66.0	MINIMUM GAGE HT. 26.27	MO. DAY TIME 8 18 1100	TOTAL ACRES FEET 396400
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LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E				OCT 62-DATE	MAR 50-SEP 62	1950	1951	0.00	USED
								1951		0.00	USED
								1951		3.60	USCGS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Altitude of gage is approximately 50 feet.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2800 *	3010 *	6500	7330	5050 *	2720	1130	826	605	393	650	597	1
2	2910	2850	7370	8500	5010	2850	1080	852	597	429	628	593	2
3	2990	2660	7950 *	9330 *	4910	3020 *	1020	794	636	469	573	585	3
4	3030	2650	8670	9590	4780	3020	1010	785	614	509	477	672	4
5	2970	2640	9270	8810	4640	3010	955	780	700	549	425	718	5
6	2930	2650	9570	7570	4650	2970	940	826	736	509	401	682 *	6
7	3100	2600	9690	6530	5330	2670	888	826	776	457 *	405	686	7
8	3150	2520	9410	5950	5640	2500	868	862	780	409	425	636	8
9	3150	2430	8720	5600	4950	2460	970	902	731	433	437	654	9
10	3030	2510	7220	5350	4700	2490	1220	1020	736	453	409	659	10
11	3030	2660	6180	5210	4690	2450 *	1380	1140	641	493	358	718	11
12	3130	2860	5810	5430	4660	2090	1440	1120	628	481	389	740	12
13	3290	3000	5610	5560	4530	1960	1360	1060	601	485	409	744	13
14	3420	3120	5430	5480 *	4420	1890	1200 *	1050	581	469	449	695	14
15	3610	3130	5390 *	5370	4180	1830	1150	1060 *	437 *	501	505 *	695	15
16	3850	3070	5330	4910	3840	1810	1040	1060	373	517	481	731 *	16
17	3780	3150 *	5270	4650	3660	1710	905	1000	373	517	425	713	17
18	3550	3490	5490	4530	3540	1630	888	950	393	545 *	385	726	18
19	3460	3620	5630	4500	3770	1690	892	888	465	501	381	776	19
20	3340	3710	5520	4420	3580	1480	848	834	549	429	377	780	20
21	3160	4020	5500	4350	3410	1380	804	798	477	362	449	790	21
22	2570 *	4310	5590	4230	3330	1240 *	820	834	413	373	565	808	22
23	2270	4450	5620	4080	3160	1220	852	852	461	334	589	830	23
24	2150	4770	5540	3590	2920	1220	892	808	529	377	501	803	24
25	2060	5190	4860	3130	2860	1170	888	744	525	453	529	780	25
26	2010	5510	4180	3020	2840	1140	820	664	517	369	553	803	26
27	2060	5630	3820	3020	2800	1140	784	690	565	351	632	803	27
28	1990	5700	3820	2980	2710	1200	776	610	585	326	659	776	28
29	2480	5670	4160	2940	2940	1200	820	695	581	323	708	780	29
30	2960	5730	4390	3160	2940	1120	808	731	463	326	682	785	30
31	3040		5720	4190		1080		695		489	641		31
MEAN	2944	3644	6233	5268	4091	1915	982	863	570	440	500	725	MEAN
MAX.	3850	5730	9690	9590	5640	3020	1440	1140	780	549	708	830	MAX.
MIN.	1990	2430	3820	2940	2710	1080	776	610	373	323	358	585	MIN.
AC. FT.	181000	216800	383300	323900	227200	117700	58410	53070	33910	27040	30740	43160	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 R - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2343	9730	21.23	12	7	1100	298	9.13	7	30	0300	1696000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 51		79000	27.75	12-9-50	JUL 22-DEC 23 JAN 24-FEB 25 JUN 25-OCT 28 MAY 29-DATE		1931		8.4	USED
								1959		5.06	USCGS
										0.00	USCGS

Station located on left bank 30 feet upstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles (revised). Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	CO1120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0.0	15	15						1
2					0.0	15	15						2
3					0.0	32	15						3
4					0.0	40	12						4
5					0.0	40	12						5
6					0.0	40	12						6
7					0.0	40	12						7
8					0.0	41	12						8
9					0.0	41	12						9
10					0.0	41	22						10
11					0.0	39	37						11
12	N	N	N	N	0.0	39	30	N	N	N	N	N	12
13	O	O	O	O	0.0	39	24	O	O	O	O	O	13
14					0.0	40	8						14
15					0.0	39	0.0						15
16	F	F	F	F	0.0	39	0.0	F	F	F	F	F	16
17	L	L	L	L	0.0	33	0.0	L	L	L	L	L	17
18	O	O	O	O	0.0	26	0.0	O	O	O	O	O	18
19	W	W	W	W	0.0	26	0.0	W	W	W	W	W	19
20					0.0	9	0.0						20
21					9	0.0	0.0						21
22					15	0.0	0.0						22
23					15	0.0	0.0						23
24					15	0.0	0.0						24
25					15	0.0	0.0						25
26					15	0.0	0.0						26
27					15	0.0	0.0						27
28					15	0.0	0.0						28
29						0.0	0.0						29
30						10	0.0						30
31						15							31
MEAN					4.1	22.5	7.9						MEAN
MAX.					15	41	37						MAX.
MIN.					0.0	0.0	0.0						MIN.
AC. FT.					226	1386	472						AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E.A.H.D.*

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2.9											2084

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LDNGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 10	119 50	20S 19E									

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	C02602	CROSS CREEK BELOW LAKE LAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE
0.0

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

TOTAL ACRE FEET
0

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO DN GAGE	REF DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
36 12 42	119 34 05	NE 10 20S 22E				21-DATE					
Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records furnished by the Corcoran Irrigation District.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1967	0902	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0	4.4	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.6	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	8.5	8.3	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.4	9.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	9.9	8.6	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	8.3	8.6	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.4	9.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.4	9.4	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.4	9.4	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	7.8	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0	8.2	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	4.8	9.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.1	9.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	4.0	0.0	0.0	31
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.2	7.0	0.0	2.6	MEAN
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	9.9	9.4	0.0	7.4	MAX
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	MIN
AC FT.								149	371	475		157	AC FT.

E - ESTIMATED
 NB - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM			TOTAL			
		GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2.3											1647

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 35 00	119 04 50	SW25 21S 27E				MAY 6--DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough under contract agreement with the U. S. Bureau of Reclamation. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	163	0.0	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	162	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	162	0.0	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	162	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	162	0.0	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	153	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	149	0.0	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	56	0.0	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	96	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	98	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	37.7	0.0	50.8	26.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	163	0.0	100	98	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC FT.	2319		3126	1650	42								AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9.8												7137

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Tule River under contract agreements with the U. S. Bureau of Reclamation. Delivery is located on the Tule River approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	C321	NORTH FORK TULLY RIVER AT SPRINGVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.8	0.5*	17	71	24	31	41	13	1.7	0.5*	0.3	0.3	1
2	0.7	0.5	16	45	26	32	43	13	0.5	0.0	0.4*	0.4	2
3	0.9	0.5	16	39	23	30	43	0.4*	1.0	1.0	0.4	0.6	3
4	1.1	0.6	16	35	24	28	41	0.1	1.7	1.0	0.4	0.4	4
5	0.8	0.7	16	31	24	29	37	0.0	1.3	0.5	0.1	0.4	5
6	0.5	0.5	15	29	63	29	36	0.3	1.2	0.4	0.1	0.3	6
7	0.5	0.9	14	33	55	29	32	0.4	1.5	0.4	0.1	0.4*	7
8	0.6	1.5	14	38	41	29	29	0.1	1.7	0.7	0.1	0.6	8
9	0.6	0.8	13	40	35	30	28	0.6	1.0	0.4	0.0	0.4*	9
10	0.9	0.8	13	38	36	31	39	1.7	1.5	0.7	0.0	0.4*	10
11	1.0	0.8	13	36	33	36	37	18	1.1	0.5	0.3	0.4	11
12	0.9	0.8	20	34	32	40	31	13	1.0	1.1	0.3	0.4*	12
13	1.7	3.9	16	32	30	43	28	10	0.9	1.6	0.3	0.3	13
14	1.1	1.6	14	31	28	47	23	0.3	0.3	0.5	0.4	0.4	14
15	0.7	3.0	13	30	28	44	20	0.4	1.3	0.6	0.4	0.6	15
16	1.0	4.9	13	30	27	45	17	0.2	0.8	0.5	0.1	0.7	16
17	1.4	15	12	27	27	43	17	5.6	0.7	0.3	0.4	0.6	17
18	1.2*	15	12	25	29	40	23	4.3	0.8	0.4	0.4	0.6	18
19	1.0	14	12	23	28	38	28	4.4	0.8	0.6	0.3	0.6	19
20	1.2	12	12	22	28	38	24	4.7*	0.8	0.6	0.1	0.4*	20
21	0.8	9.4	12	21	28	35	21	4.1	0.7*	0.5	0.2	0.8	21
22	0.9	8.4	11	20	29	35	14	3.4	0.6	0.4	0.2	0.4*	22
33	0.8	2.9	11	19	31	36	16	2.2	0.7	0.5	0.2	0.6	33
34	0.8	7.0	11	18	34	36	15	2.3	1.0	0.5	0.2	0.7	34
35	0.9	6.2	11	18	33	34	14	2.1	0.6	0.3	0.1	0.4*	35
26	0.9	3.7	13	18	34	33	14	1.6	0.7	0.3	0.3	0.4	36
27	0.9	2.7	12	17	31	33	15	1.8	0.7	0.3	0.5	0.7	27
28	0.8	2.3	12	16	30	34	16	1.4	0.6	0.4	0.5	0.4	28
29	0.8	2.0	14	15	36	33	13	1.1	0.5	0.3	0.4	0.4	29
30	0.7	1.6	133	25	38	38	14	1.1	0.5	0.3	0.4	0.4	30
31	0.7		90	25	39	39		1.4		0.3	0.4		31
MEAN	0.9	12.7	21.8	29.1	31.6	35.5	25.9	6.7	1.1	0.5	0.3	0.5	MEAN
MAX.	1.7	70.0	133	71.0	63.0	47.0	43.0	18.0	2.0	1.4	0.6	0.9	MAX.
MIN.	0.5	0.5	11.0	15.0	23.0	28.0	12.0	1.1	0.5	0.3	0.1	0.4	MIN.
AC FT.	55	754	1343	1787	1767	2184	1539	400	63	33	19	31	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
13.8	240	6.40	12	30	1.30	0.2		8	3	0000	9983

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. N. D. S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO	ZERO ON GAGE		
36 08 23	118 48 16	SE35 205 29E	4600E	10.29	1-31-63	FEB 57-DATE			1957		0.00	LOCAL

Station located at State Highway 190 Bridge, 0.8 mile northeast of Springville. Drainage area is 97.9 square miles. Maximum discharge of record from rating curve extended above 2,470 cfs. Altitude of gage is approximately 990 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

		WATER YEAR		STATION NO.		STATION NAME							
		1966		C03169		TULE RIVER BELOW PORTERVILLE							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	0.0	127	288	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	143	0.0	136	190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	147	0.0	127	76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	147	0.0	117	76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	147	0.0	117	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	136	0.0	120	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	133	0.0	120	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	143	0.0	117	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	153	0.0	117	83	0.0	0.0	0.0	0.0	0.0	54	0.0	0.0	9
10	160	0.0	111	83	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	10
11	143	0.0	105	83	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	11
12	153	0.0	91	66	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	12
13	153	0.0	91	53	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	13
14	153	0.0	111	50	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	14
15	157	0.0	117	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	153	0.0	111	143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	153	0.0	35	140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	143	0.0	17	140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	130	0.0	17	140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	96	0.0	20	124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	18	0.0	21	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	8.6	0.0	20	114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	41.0	0.0	13	105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.3	0.0	13	105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	16	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	16	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	17	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	5.9	14	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	35	36	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	44	230	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	94.1	2.8	84.9	94.8	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	MEAN
MAX	160.0	44.0	312.0	288.0	0.0	0.0	0.0	0.0	0.0	54.0	0.0	0.0	MAX
MIN.	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	5786	168	5220	5832						229			AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	
DISCHARGE	
23.4	

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

TOTAL	
ACRE FEET	
17240	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 40	119 06 22	NW 30 21S 27E	5170	8.17	5-19-57	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16	12	0.0	0.0	1.3	0.0	0.0	6.5	6.0	7.2	7.0	7.5	1
2	16	1.9	0.0	0.0	3.6	0.0	0.0	6.8	5.0	5.1	7.8	7.5	2
3	15	0.5	0.0	0.0	8.7	0.0	0.0	7.8	4.7	4.5	7.5	6.8	3
4	14	0.2	0.0	14	8.7	0.0	0.0	7.8	4.5	4.7	7.8	8.4	4
5	14	0.0	0.0	22	8.7	0.0	0.0	7.5	4.0	6.0	8.1	6.0	5
6	15	0.0	0.0	22	9.0	0.0	0.0	6.2	4.7	6.0	12	0.0	6
7	19	0.0	0.0	21	9.0	0.0	0.0	6.5	3.0	5.5	9.7	0.0	7
8	21	0.0	0.0	21	8.1	0.0	0.0	6.8	3.4	10	0.0	0.0	8
9	21	0.0	0.0	21	2.9	0.0	0.0	7.2	8.1	10	10	0.0	9
10	22	0.0	0.0	21	0.0	0.0	0.0	7.8	6.5	11	8.4	0.0	10
11	22	0.0	0.0	21	0.0	0.3	10	7.2	5.2	10	8.7	0.0	11
12	24	0.0	0.0	21	0.0	3.7	22	8.4	5.2	10	8.4	0.0	12
13	24	0.0	0.0	21	0.0	6.0	25	7.8	5.0	10	8.1	0.0	13
14	25	0.0	0.0	21	0.0	4.5	18	7.5	5.2	10	9.0	0.0	14
15	25	0.0	0.0	21	0.0	3.8	10	7.5	6.0	10	9.3	0.0	15
16	25	0.0	0.0	22	0.0	5.7	9.3	7.2	6.0	11	9.0	0.0	16
17	25	0.0	0.0	21	0.0	7.2	10	6.8	5.7	9.7	8.4	0.0	17
18	24	0.0	0.0	21	0.0	6.8	9.7	7.2	5.5	9.3	7.8	0.0	18
19	24	0.0	0.0	21	0.0	3.8	11	6.5	5.2	9.3	7.2	0.0	19
20	20	0.0	0.0	19	0.0	0.0	12	5.7	5.0	8.4	7.5	0.0	20
21	18	0.0	0.0	19	0.0	0.0	12	7.2	4.7	8.1	7.5	0.0	21
22	17	0.0	0.0	18	0.0	0.0	10	7.2	5.2	8.1	7.5	0.0	22
23	16	0.0	0.0	16	0.0	0.0	7.2	6.2	5.0	8.1	7.8	0.0	23
24	16	0.0	0.0	15	0.0	0.0	6.8	7.2	4.7	7.8	7.2	0.0	24
25	15	0.0	0.0	14	0.0	0.0	6.8	7.5	4.5	7.2	6.8	0.0	25
26	15	0.0	0.0	14	0.0	0.0	6.8	7.2	4.7	6.8	7.2	0.0	26
27	14	0.0	0.0	13	0.0	0.0	7.2	6.5	5.0	7.2	7.8	0.0	27
28	13	0.0	0.0	13	0.0	0.0	7.2	6.0	5.2	7.5	7.8	0.0	28
29	12	0.0	0.0	12	0.0	0.0	6.8	7.5	5.7	8.1	7.5	0.0	29
30	13	0.0	0.0	4.9	0.0	0.0	6.8	7.2	5.5	8.4	8.1	0.0	30
31	13	0.0	0.0	0.6	0.0	0.0	7.5	7.5	7.5	7.8	7.8	0.0	31
MEAN	18.5	0.5	0.0	15.8	2.1	1.3	7.2	7.1	5.1	8.1	8.2	1.2	MEAN
MAX	25.0	12.0	0.0	22.0	9.0	7.2	25.0	8.4	8.1	11.0	12.0	8.4	MAX
MIN	12.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	3.0	4.5	6.8	0.0	MIN
AC FT.	1136	29		973	119	83	426	436	306	497	505	72	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 R - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
6.3												4582	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00	LOCAL
										-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	19	30	0.0	15	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	1
2	19	11	0.0	8.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	2
3	19	1.3	0.0	4.6	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	3
4	19	0.0	0.0	5.6	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	4
5	19	0.0	0.0	6.4	0.0	0.6	27	0.0	0.0	0.0	0.0	0.0	5
6	19	0.0	0.0	5.8	0.0	1.2	26	0.0	0.0	0.0	0.0	0.0	6
7	32	0.0	24	6.0	0.0	16	20	0.0	0.0	0.0	0.0	0.0	7
8	50	1.4	29	4.6	0.0	23	15	0.0	0.0	0.0	0.0	0.0	8
9	56	0.0	39	4.0	0.0	25	14	0.0	0.0	0.0	0.0	0.0	9
10	63	0.0	48	3.8	0.0	25	14	7.4	0.0	0.0	0.0	0.0	10
11	67	0.0	40	3.6	0.0	23	14	20	0.0	0.0	0.0	0.0	11
12	66	0.0	35	3.2	0.0	23	16	25	0.0	0.0	0.0	0.0	12
13	80	0.0	39	2.8	0.0	24	16	23	0.0	0.0	0.0	0.0	13
14	81	0.0	33	2.6	0.0	24	14	22	3.6	0.0	0.0	0.0	14
15	80	0.0	26	4.8	0.0	24	15	22	29	0.0	0.0	0.0	15
16	79	0.0	24	8.6	0.0	24	17	22	38	0.0	0.0	0.0	16
17	83	0.0	23	8.2	0.0	24	16	23	35	0.0	0.0	0.0	17
18	82	0.0	23	8.0	0.0	24	16	25	32	0.0	0.0	0.0	18
19	80	0.0	23	6.8	0.0	23	16	23	32	0.0	0.0	0.0	19
20	45	0.0	23	2.4	0.0	21	16	15	30	0.0	0.0	0.0	20
21	23	0.0	24	1.9	0.0	20	16	14	29	0.0	0.0	0.0	21
22	22	0.0	23	2.1	0.0	10	9.6	19	30	0.0	0.0	0.0	22
23	20	0.0	23	1.5	0.0	0.3	0.4	18	30	0.0	0.0	0.0	23
24	19	0.0	23	1.1	0.0	0.0	0.0	17	15	0.0	0.0	0.0	24
25	26	0.0	23	0.0	0.0	0.0	0.0	16	0.4	0.0	0.0	0.0	25
26	34	0.0	23	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	26
27	34	0.0	23	0.5	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	27
28	33	0.0	21	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	28
29	33	0.0	17	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	30	0.0	16	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	30
31	30	0.0	18	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	43.9	1.4	21.4	4.0	0.0	12.6	13.5	10.6	10.1	0.0	0.0	0.0	MEAN
MAX.	83.0	30.0	48.0	15.0	0.0	25.0	28.0	25.0	38.0	0.0	0.0	0.0	MAX.
MIN.	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	2701	87	1315	244		774	803	649	603				AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
98	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
											7176

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	CO3984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.1	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	1
2	3.9	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	2
3	2.2	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	3
4	3.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	4
5	2.5	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	6
7	0.5	0.0	2.7	0.0	0.0	1.5	9.0	0.0	0.0	0.0	0.0	0.0	7
8	1.4	0.0	7.6	0.0	0.0	10	6.6	0.0	0.0	0.0	0.0	0.0	8
9	1.6	0.0	9.4	0.0	0.0	12	6.0	0.0	0.0	0.0	0.0	0.0	9
10	1.9	0.0	11	0.0	0.0	12	5.8	0.0	0.0	0.0	0.0	0.0	10
11	1.3	0.0	4.9	0.0	0.0	12	6.0	2.3	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	14	7.1	8.6	0.0	0.0	0.0	0.0	12
13	0.8	0.0	0.0	0.0	0.0	15	6.9	9.3	0.0	0.0	0.0	0.0	13
14	1.3	0.0	0.0	0.0	0.0	15	6.2	13	0.0	0.0	0.0	0.0	14
15	1.3	0.0	0.0	0.0	0.0	15	5.9	15	3.5	0.0	0.0	0.0	15
16	1.1	0.0	0.0	0.0	0.0	15	7.5	13	17	0.0	0.0	0.0	16
17	0.8	0.0	0.0	0.0	0.0	15	7.2	12	18	0.0	0.0	0.0	17
18	1.3	0.0	0.0	0.0	0.0	15	6.2	12	18	0.0	0.0	0.0	18
19	1.3	0.0	0.0	0.0	0.0	15	6.5	12	19	0.0	0.0	0.0	19
20	0.6	0.0	0.0	0.0	0.0	14	6.3	8.6	17	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	14	5.9	4.9	19	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	11	4.3	10	18	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	17	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	10	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	1.0	0.0	1.2	0.0	0.0	6.7	5.8	4.9	5.2	0.0	0.0	0.0	MEAN
MAX.	4.1	0.0	11.0	0.0	0.0	15.0	14.0	15.0	19.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	61		71			414	344	303	310				AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.1												1503

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M. D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE			1943	0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03187	PORTER SLOUGH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.1	12	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	2.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	2.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	5
6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	24	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	31	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	33	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	35	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	46	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	48	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	50	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	49	0.0	9.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	51	0.0	8.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	53	0.0	8.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	53	0.0	8.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	33	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	10	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	9.8	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	7.8	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	5.9	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	8.2	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	14	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	13	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	13	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	12	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	10	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	11		7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	21.4	0.6	7.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	53.0	12.0	19.0	5.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC.FT.	1316	33	442	24			0.6						AC.FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
2.5	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	1815

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
36 04 00	119 03 08	NE28 21S 27E	364	5.14	4-3-58	JAN 57-DATE		1957		0.00	LOCAL

Station located at Newcomb Drive Bridge, 2.0 miles west of Porterville. Tributary to Tulare Lake Basin via Tule River. Altitude of gage is approximately 425 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	10
11	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	11
12	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.8	12
13	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	13
14	4.1	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	14
15	6.3	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	15
16	6.3	0.0	0.0	5.8	0.0	0.0	0.0	0.0	2.1	5.6	0.0	0.0	16
17	6.3	0.0	0.0	5.7	0.0	0.0	0.0	0.0	5.0	5.6	0.0	0.0	17
18	6.2	0.0	0.0	5.8	0.0	0.0	0.0	0.0	5.0	5.6	0.0	0.0	18
19	6.2	0.0	0.0	5.7	0.0	0.0	0.0	0.0	3.3	5.6	0.0	0.0	19
20	2.4	0.0	0.0	5.0	0.0	0.0	0.0	0.0	1.0	5.6	0.0	0.0	20
21	0.1	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	21
22	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	22
23	1.6	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	23
24	4.8	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	24
25	4.8	0.0	0.0	4.8	0.0	0.0	0.0	0.0	1.0	5.5	0.0	0.0	25
26	4.8	0.0	0.0	4.9	0.0	0.0	0.0	0.0	4.7	5.5	0.0	0.0	26
27	2.4	0.0	0.0	4.8	0.0	0.0	0.0	0.0	5.1	2.1	0.0	0.0	27
28	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	28
29	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	1.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	1.5	3.4	1.0	0.0	MEAN
MAX.	6.3	0.0	0.0	5.8	0.0	0.0	0.0	0.0	5.5	5.6	5.5	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	112			187					86	211	64		AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
0.9											660

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO DH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 03 00	118 58 18	NE 5 225 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	69	37	0.0	0.8	1.6	0.3	0.0	0.0	0.0	36	0.0	0.0	1
2	70	12	0.0	0.7	1.6	0.5	0.0	0.0	0.0	36	0.0	0.0	2
3	72	3.5	4.4	0.3	1.6	0.5	0.0	0.0	0.0	35	0.0	0.0	3
4	71	3.1	10	0.3	1.8	0.5	0.0	0.0	0.0	20	0.0	0.0	4
5	71	3.0	9.2	0.3	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	5
6	74	2.7	9.0	0.3	1.9	0.6	0.0	0.0	0.0	0.0	45	0.0	6
7	76	2.7	8.8	0.3	1.9	0.7	0.0	7.9	0.0	0.0	60	0.0	7
8	74	2.4	9.2	0.3	1.9	3.3	0.0	19	0.0	0.0	61	0.0	8
9	71	2.1	9.2	0.4	1.9	9.5	0.0	24	0.0	0.0	60	0.0	9
10	70	1.7	9.0	0.4	2.0	19	0.0	33	0.0	12	11	0.0	10
11	70	1.3	8.7	0.7	1.9	24	0.0	37	0.0	23	0.0	0.0	11
12	70	1.0	8.2	0.9	1.9	25	0.0	40	26	42	0.0	0.0	12
13	66	0.8	8.2	0.9	1.8	26	0.0	40	31	44	0.0	0.0	13
14	67	0.3	8.2	1.0	1.7	26	0.0	39	43	46	0.0	0.0	14
15	67	0.2	8.0	1.0	1.2	26	0.0	20	50	47	0.0	0.0	15
16	66	0.2	7.8	1.1	0.4	26	0.0	0.0	58	47	0.0	0.0	16
17	66	2.1	4.5	1.1	0.4	26	6.0	0.0	62	44	0.0	0.0	17
18	62	4.1	0.0	1.3	0.4	26	24	0.0	54	24	0.0	0.0	18
19	59	3.8	0.0	1.4	0.4	26	24	0.0	52	0.0	0.0	0.0	19
20	48	3.5	0.0	1.2	0.4	23	23	0.0	27	0.0	0.0	0.0	20
21	39	3.4	0.0	1.1	0.4	19	24	0.0	0.0	0.0	0.0	0.0	21
22	39	3.5	0.0	1.2	0.4	18	24	0.0	0.0	0.0	0.0	0.0	22
23	39	3.3	0.3	1.1	0.4	18	19	0.0	0.0	0.0	0.0	0.0	23
24	37	3.8	1.5	1.1	0.4	18	9.6	0.0	0.0	0.0	0.0	0.0	24
25	38	3.6	1.2	1.1	0.4	17	0.0	0.0	0.0	0.0	0.0	0.0	25
26	43	3.6	1.1	1.0	0.3	15	0.0	0.0	13	0.0	0.0	0.0	26
27	46	2.7	1.1	0.6	0.3	13	0.0	0.0	30	2.0	0.0	0.0	27
28	46	0.0	1.1	0.7	0.3	12	0.0	0.0	39	4.1	0.0	0.0	28
29	40	0.0	1.2	0.8		6.5	0.0	0.0	43	4.1	0.0	0.0	29
30	37	0.0	1.1	1.2		0.0	0.0	0.0	39	4.1	0.0	0.0	30
31	36		1.0	1.5		0.0	0.0	0.0		4.1	0.0	0.0	31
MEAN	58.0	3.7	4.3	0.8	1.1	13.7	5.1	8.4	18.9	15.3	7.6	0.0	MEAN
MAX	76.0	37.0	10.0	1.5	2.0	26.0	24.0	40.0	62.0	47.0	61.0	0.0	MAX
MIN	36.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC.FT.	3568	221	262	52	62	844	305	516	1123	941	470		AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
11.6												8366

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M. O. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
36 03 18	119 00 54	SH36 21S 27E				24.0		APR 42-DATE	1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13	0.0	10	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.4	0.0	12	2
3	0.7	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	4.3	0.0	10	3
4	4.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	3.5	4.3	0.0	0.0	4
5	4.2	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	4.3	0.0	0.0	5
6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	6
7	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	2.8	0.0	0.0	7
8	23	0.0	0.0	0.0	1.3	3.6	0.0	0.0	0.0	2.8	0.0	0.0	8
9	22	0.0	0.0	0.0	8.1	7.4	0.0	0.0	0.0	7.5	3.8	0.0	9
10	22	0.0	0.0	0.0	15	6.8	0.0	0.0	0.0	10	11	0.0	10
11	24	0.0	0.0	0.0	14	6.2	0.0	0.0	0.0	10	11	0.0	11
12	26	0.0	0.0	0.0	12	6.1	0.0	6.7	0.0	10	12	4.2	12
13	24	0.0	0.0	0.0	13	6.1	9.0	12	8.6	9.8	9.9	9.2	13
14	21	0.0	0.0	0.0	12	7.9	15	10	10	14	9.6	12	14
15	21	0.0	0.0	0.0	11	10	18	11	10	18	11	12	15
16	20	0.0	0.0	0.0	11	11	17	14	17	18	14	9.8	16
17	19	0.0	0.0	0.0	9.4	11	16	22	21	13	17	11	17
18	18	0.0	0.0	0.0	8.6	11	12	23	23	6.4	17	11	18
19	17	0.0	0.0	0.0	8.1	11	11	16	20	6.3	9.7	1.2	19
20	7.1	0.0	0.0	0.0	5.3	10	7.7	0.0	9.0	5.9	6.8	0.0	20
21	1.4	0.0	0.0	0.0	1.4	10	5.9	0.0	5.7	5.9	6.8	0.0	21
22	1.8	0.0	0.0	0.0	0.0	15	4.6	0.0	5.5	5.9	6.4	0.0	22
23	4.0	0.0	0.0	0.0	0.0	16	5.9	5.1	4.9	5.9	6.4	0.0	23
24	4.5	0.0	0.0	0.0	0.0	9.1	6.2	5.2	0.0	5.9	5.7	0.0	24
25	3.2	0.0	0.0	0.0	0.0	2.7	4.4	4.8	0.0	5.9	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	3.4	0.9	3.4	0.0	6.1	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	12	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	20	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	8.8	21	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	12	21	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	5.6	3.4	0.0	31
MEAN	9.8	0.0	0.0	0.0	4.6	5.4	5.0	4.7	5.5	9.2	5.2	3.4	MEAN
MAX.	26.0	0.0	0.0	0.0	15.0	16.0	18.0	23.0	23.0	21.0	17.0	12.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	MIN.
AC.FT.	604				258	329	296	290	327	568	321	203	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
4.4	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	3195

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE NT	DATE			FROM	TO		
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C03940	RHODES-PINE DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	17	4.5	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	17	3.4	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	17	0.0	3.4	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	2.0	3.6	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	3.1	7.8	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.0	0.0	0.0	0.0	6.5	3.1	1.3	0.0	0.0	0.0	0.0	MEAN
MAX	0.0	0.0	0.0	0.0	0.0	20.0	11.0	6.2	0.0	0.0	0.0	0.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC.FT.						397	184	77					AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
0.9												658

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1:4 SEC. T & R M.D.B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 03 26	119 04 13	SE32 21S 27E				DEC 42-DATE			1942	0.00	LOCAL

Station located 3.1 miles southwest of Porterville, approximately 3,100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1966	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	89	0.0	0.0	10
11	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126	0.0	0.0	11
12	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141	0.0	0.0	12
13	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74	0.0	0.0	13
14	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57	0.0	0.0	14
15	77	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	90	0.0	0.0	15
16	74	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	88	0.0	0.0	16
17	70	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	87	0.0	0.0	17
18	68	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	86	0.0	0.0	18
19	68	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	93	0.0	0.0	19
20	34	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	88	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96	0.0	0.0	27
28	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	110	0.0	0.0	28
29	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	109	0.0	0.0	29
30	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	109	0.0	0.0	30
31	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	31
MEAN	20.8	0.0	1.3	4.0	0.0	0.0	0.0	0.0	0.0	67.2	0.0	0.0	MEAN
MAX	77.0	0.0	17.0	23.0	0.0	0.0	0.0	0.0	0.0	141	0.0	0.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN
AC. FT.	1281		80	244						4132			AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
7.8	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	5737

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1.4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE			1942	0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	657	729	682	593	395	625	821	669	595	1182	920	485	1
2	701	579	634	593	357	640	764	724	646	1130	924	428	2
3	818	536	571	591	353	639	738	716	636	1155	992	393	3
4	852	521	531	595	354	657	748	711	614	1196	988	361	4
5	863	502	525	593	361	696	750	675	611	1210	974	336	5
6	881	481	518	590	388	736	767	679	633	1228	952	372	6
7	864	424	495	588	423	764	770	674	678	1210	920	357	7
8	841	387	493	586	414	823	724	684	716	1224	910	374	8
9	815	320	496	569	403	834	693	688	764	1202	908	355	9
10	718	317	490	563	434	870	724	681	681	1214	953	335	10
11	755	347	493	506	437	905	796	620	1031	1218	937	327	11
12	727	366	504	483	390	919	812	601	1151	1206	906	326	12
13	800	367	497	490	361	966	849	594	1271	1175	858	297	13
14	809	357	480	458	369	990	866	515	1323	1187	814	301	14
15	806	380	470	486	394	1012	794	480	1418	1121	845	297	15
16	796	405	471	466	394	1006	686	462	1501	1064	835	296	16
17	798	567	456	472	391	1004	699	530	1523	1037	856	280	17
18	783	571	390	450	385	1002	770	577	1517	1019	860	307	18
19	755	583	376	441	382	936	790	574	1543	1045	849	324	19
20	745	584	374	450	385	888	792	561	1564	1133	816	290	20
21	736	589	388	444	379	954	769	531	1581	1181	785	282	21
22	718	592	410	425	374	901	758	568	1545	1186	777	255	22
23	713	595	394	431	403	859	719	609	1480	1164	770	262	23
24	705	655	340	416	437	783	709	612	1423	1066	745	304	24
25	712	828	357	390	483	767	724	639	1345	948	758	292	25
26	710	831	357	399	509	756	725	625	1266	957	713	302	26
27	719	909	360	398	525	741	708	601	1194	1033	703	301	27
28	740	1000	385	398	586	735	730	535	1148	994	649	287	28
29	737	997	425	394	726	654	540	1190	949	994	666	338	29
30	727	1002	593	420	767	654	558	1194	926	894	602	345	30
31	746	604	604	436	780	780	567		894	583	583		31
MEAN	766	577	470	488	410	828	750	606	1134	1111	831	328	MEAN
MAX.	881	1002	682	595	586	1012	866	724	1581	1228	992	485	MAX.
MIN.	657	317	340	390	354	625	654	462	595	894	583	255	MIN.
AC. FT.	47101	34356	28877	29978	22752	50933	44634	37289	67486	68338	51110	19535	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
694		1587		6			229		9			502391

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	93-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

INSUFFICIENT DATA TO PUBLISH DAILY FLOWS

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	GAGE HT.	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
		2.48	1	30	0500	0.0		10	1	0000		

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.			DATE	FROM			TD
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

TABLE B-5

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Ash Slough at Eastside Bypass (a)	San Joaquin River via Eastside Bypass	SE $\frac{1}{4}$, Sec 22, T10S, R14E	11-26-65	(b) 2.93	262
			12-31-65	(b) 1.40	583
Bear Creek at Eastside Bypass (a)	San Joaquin River via Eastside Bypass	NW $\frac{1}{4}$, Sec 12, T 8S, R11E	12-31-65	(c)	529
			1-20-66	86.22	27.5
			1-27-66	86.13	20.9
Deer Creek at Terra Bella I.D. (d)	Tulare Lake	SE $\frac{1}{4}$, Sec 10, T23S, R29E	2-14-66	631.40	16.4
				631.38	16.1
Eastside Bypass at Washington Road (a)	San Joaquin River	NW $\frac{1}{4}$, Sec 33, T 9S, R13E	11-26-65	107.11	178
			1- 6-66	107.05	215
			1-17-66	106.48	41.0
			1-20-66	106.39	28.0
			2-18-66	106.19	4.21
Mariposa Bypass near Crane Ranch (a)	San Joaquin River via Eastside Bypass	NW $\frac{1}{4}$, Sec 31, T 8S, R11E	1- 6-66	91.33	215
Mustang Creek near Ballico (d)	High Line Canal	NW $\frac{1}{4}$, Sec 16, T 5S, R12E	11-23-65	2.63	14.2
			12-30-65	3.72	38.5
			1- 7-66	1.10	0.08
			1-31-66	2.10	9.88
Mustang Creek at East Avenue	High Line Canal	NW $\frac{1}{4}$, Sec 20, T 5S, R12E	11-23-65	(c)	20.4
			12-30-65		47.4
			1- 7-66		0.19
			1-31-66		13.7
Owens Creek at Eastside Bypass (a)	San Joaquin River via Eastside Bypass	SW $\frac{1}{4}$, Sec 19, T 8S, R12E	12-31-65	88.15	542
			1-27-66	83.12	0.36

- a Staff gage only.
b Measuring point to water surface.
c No gage at time of measurement.
d Recording gage.

TABLE B-6

DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1966 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

0.0	- 999	nearest	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Total monthly diversion - cubic feet per second

All values to nearest unit.

3. Monthly use in percent

All values to nearest tenth.

Data received from outside agencies are published as received and are not rounded to the criteria used by the Department of Water Resources.

TABLE B-6
 DIVERSIONS - SAN JOAQUIN RIVER
 (Vernalis to Fremont Ford Bridge)
 October 1965 through September 1966

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE-FEET			
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEPT		
--DURHAM FERRY BRIDGE--	76.7																
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7																
Morasco Brothers	78.9 P	1-14 1-24	77						246	1060	239	679	768	283	691		4034
Cruza, Trudel and Gillmeister	79.4 R	1-20		59						103	209	207	38	45	178		839
--STANISLAUS RIVER--	79.7 R																
Faith Ranch	79.8 R	1-16	86						98	112	146	157	86	105	103		896
W. C. Blewett Estate	80.7 L	1-12	17						128	194	342	227	210	45			1163
W. C. Blewett Estate	81.8 L	2-12 1-14	9						946	1260	1510	1770	1780	1320	1070		9665
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85																
Blewett Mutual Water Company	81.95L	1-10 2-12 1-14	308					48	483	718	1620	1420	1240	806	1350		7993
El Solyo Water District	82.0 L	1-10 1-16 3-18	6980						818	3160	2970	2480	3620	3080	1100		24210
--HETCH HETCHY AQUEDUCT CROSSING--	82.65																
El Solyo Ranch	82.9 L	1-16							190	326	221	337	243	217			1534
El Solyo Ranch	83.5 L	1-12								5	102	48		116	93		364
El Solyo Ranch	83.7 L	1-12								275	74	29	782	334	169		1663
Faith Ranch	84.4 R	1-16 1-20	1670	40					477	834	880	147	1380	1170	1210		7808
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	90.95																
--TUOLUMNE RIVER--	91.0 R																
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L																
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1660	118		26	22	6690	9360	9330	10500	9900	5790	1920			55320
Fred Lara #1	* (0.68)	1-14	35						137	189	222	247	183	21	144		1178
E. E. Hagemann Ranch #1 a	* (0.7N)	3-16							314	742	848	1020	704	895	591		5114
E. E. Hagemann Ranch #2 b	* (1.1N)	1-14 1-16							454	620	710	556	1060	711	423		4534
Fred Lara #2	* (2.2S)	1-16		8					27	13	14	12	3	18	13		108
E. E. Hagemann Ranch #3 c	* (2.3N)	2-16	10						92	180	159	29	88	153	22		733
J. V. Stenstrup Estate	93.1 R	1-12 1-14							433	932	782	921	938	1070	168		5244
T. C. Daily	94.1 L	1-3 1-6								81	28	70	34	129	124		466
Rancho Dos Rios	94.7 R	1-12	89		3	2			239	175	215	371	317	422	303		2136
E. L. Brazil	95.5 R	1-16							169	159	107	149	197	393	277		1451
Island Dairy	96.0 L	1-18							482	205	431	421	576	603	359		3077
--LAIRD SLOUGH BRIDGE--	96.05																
Rancho El Pescadero	98.9 L	1-18	11	18					40	398	367	203	91	311	74		1593
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L																
Patterson Water District	104.4 L	1-14 2-18 3-20 1-36	93						1460	7360	5800	8260	8320	9670	4750		45660
Chase Brothers	104.5 R	1-18	157						171	331	409	441	432	401	283		2632
--PATTERSON BRIDGE--	104.6																
Chase Brothers	106.5 R	1-12	68						61	558	304	479	414	422	345		2651
Tony Spinelli	109.1 R	1-12	24	40					21	114	52	59	58	41	44		358
Twin Oaks Irrigation Company	109.8 L	1-12 2-16 1-18	463						204	1560	1380	164	1620	2000	1111		9877
T. J. Henderson	110.8 R	1-8											137	107	208		452
L. A. Thompson	112.55R	1-18	96						73	323	234	298	297	47	268		1636
D. R. Lemos f	113.4 R	1-12	64	31	12	5	19		87	78	39	151	70	209	69		834
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4																

TABLE B-6 (Cont.)
 DIVERSIONS - SAN JOAQUIN RIVER
 (Vernalis to Fremont Ford Bridge)
 October 1965 through September 1966

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT, ACRE-FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
D. R. Lemos f	114.63R	1-8							49	62	83	64	64	45	367
Arnold and Ben Souza	114.75R	2-10	124					98	240	241	295	327	292	161	1778
--ORESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	1-10						117	60	168	251	240	196	151	1183
L. B. Crow	116.05L	1-14	94	45				67	61	195	188	224	186	136	1196
John W. Greer	116.15R	1-8	49	14					58	70	84	93	95	30	493
John W. Greer	116.5 R	1-12	70					176	30	132	258	248	246	131	1291
Manuel A. Serpa g	121.3 R	1-18	43							138	211	205	443	265	1305
--MERCED RIVER SLOUGH--	122.2 R														
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-11	275	4				133	371	448	576	428	508	419	3142
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
<u>VERNALIS TO FREMONT FORD BRIDGE</u>															
Total			1256	152	15	33	54	14980	32070	31300	34150	37510	32940	18910	216000
Average cubic feet per second			205	6	0	1	2	244	539	509	591	610	536	318	298
Monthly use in percent of seasonal			5.8	0.2	0	0	0	6.4	14.8	14.5	16.3	17.4	15.3	8.8	

* West Stanislaus Irrigation District Canal Intake Canal joins the San Joaquin River at mile 91.8L. Distance from the river and bank location of diversion are shown in parentheses.

a Previously published as Frank Sarmento #1.
 b Previously published as Frank Sarmento #2.

c Previously published as Frank Sarmento #3.
 d Includes an undetermined amount of water returned to river by spill.
 e One 8-inch unit removed in 1966.
 f Previously published as Dan Lemos.
 g Previously published as Stevenson Water District.

TABLE 4-6 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
 (From Fremont Ford Bridge to Gravelly Ford)
 October 1965 through September 1966

WATER USER	MILE AND BANK ABOVE MONTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE- FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET		
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT			
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.4																
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.7																
San Luis Canal Company	186.4	5 Gravity	339	493	1468		3386	17824	17883	204	2421	2744	2112	1491	16	2	
--FIREBAUGH BRIDGE--	198.4																
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--																	
--MENDOTA DAM--	208.63																
Central California Irrigation District	208.8 L	Gravity	19684	8934	2160	347	8570	652967	9901	67716	472916	482198	8844	10942	4		
--FRESNO SLOUGH-- c	209.0 L																
--DELTA-MENDOTA CANAL--	(0.2L)																
Firebaugh Canal Company	(0.4L)		1329	69			1003	7662	8928	1086	122	14267	12224	6489	14819		
M. Jensen																	
M. L. Dudley c d	(3.4L)						12	4	407	44	44	629	422	1	19		
State of California c Mendota Waterfowl Management	(6.45-8.20)		4659	1833	1198							33	1619	3134	319	31	194
Fresno Slough Water c District	(9.20-10.50)		67					659	240	282	510	547	40	273	298		
--JAMES BYPASS-- c	(11.80R)																
Traction Water District e	(0.75)		106	196				624	682	1199	1008	1287	1319	1824	791		
Reclamation District 1606 e	(1.50)							46	93	119	93	137	11		89		
James Irrigation District e	(4.4)		60				1298	4052	4772	5334	841	8602	7051	1011	4315		
Tranquillity Irrigation c District	(12.00-13.75)		609				228	568	1827	2991	1956	5617	3800	4581	2219		
Melvin D. Hughes c	(12.20)									14			36		80		
--LONE WILLOW SLOUGH--	219.8 R																
Columbia Canal Company	219.8 F		2981	1011			2999	4398	6157	7648	8323	9277	8648	6490	8464		
State Center Land Company	219.8 F		244	90								7	91	20	80		
C. Sawall	1-E																
Mendota Duck Club	1-																
M. Beck	1-		20														4
Mario Giomi (Jennings Ranch)																	
F. A. Yearout																	
Tulle Gun Club	1 1-		18														81
Westlands Water District			981	480	901	82	966	264	3341	3221	412	4688	448	248	1481		
Grasslands			2984	1004											322		1961
J. W. Wilson								143	38	14	50	10	90				469
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.7																
--GRAVELLY FORD CANAL--	232.0																
FREMONT FORD BRIDGE TO GRAVELLY FORD																	
Total			11911	21364	4611	429	1802	9911	4162	1211	14112	18926	1411	641	1001		
Average cubic feet per second			1072	389	400	7	337	1822	150	101	1211	216	219	1321			
Monthly use in percent of seasonal			6.2	2.2	2.8	0.1	1.1	10.8	1.1	0.8	11.2	11.4	1.4	8.2			

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and monthly diversion acre-foot values are published as received and not rounded to the nearest hundred by the Department of Water Resources.

- a Includes Class I water.
- b Total does not include Central California Irrigation District delivered from Delta-Mendota Canal.
- c Plant as located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
- d Previously published as Grace Brothers.
- e Plant as located on James Bypass which diverts from Fresno Slough at mile 11.80R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
- f Includes deliveries to Glutz property and transferred water to Westlands Water District.
- g One 8-inch pump located on arm of slough at SW corner, S. 1, T. 14 S., R. 1 E.
- h One 8-inch pump located on arm of slough 14 feet from NE corner, S. 12, T. 14 S., R. 11 E.
- i One 8-inch pump located on arm of slough adjacent to M. Beck. Does not include transferred water delivered to Glutz property by Tranquillity Irrigation District and delivered under separate agreements by Panche Water District.

TABLE B-6 (Cont.)
 DIVERSIONS - SAN JOAQUIN RIVER
 (Gravelly Ford to Friant Dam)
 October 1965 through September 1966

WATER USER	MILE AND BANK RECVS MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE-FEET		
			OCT.	NOV	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.	
Carl H. Hobe	233.03R	2- 6							24	127	274	242	189	149	193	1198
United Packing Company a	233.63L	1- 6	45	19				42	84	69	104	110	123	4	14	614
--SKAGGS BRIDGE-- b	238.26															
--U. S. HIGHWAY 99 BRIDGE--	247.38															
--SANTA FE RAILROAD BRIDGE--	249.23															
Miller Brothers	251.46L	1- 6	26						48	80	56	54	49	53	40	406
Sycamore Island Stock c Ranch 4	255.84	1- 5								44	21		66	55	25	211
Oscar Spano River Ranch 4	256.38L	1- 8	44	3				43	32	104	105	114	126	141	82	794
Sycamore Island Stock Ranch 2	256.52R	1- 8							10	50	50	54	43	56	41	304
Oscar Spano River Ranch 1	257.10L	1-16	108					18	68	218	235	268	219	219	141	1494
Oscar Spano River Ranch 2	257.70L	1-12	29			1		12	88	70	94	75	106	104	68	647
L. D. Cobb	258.08R	1- 6 1- 7	1						93	5	83	152	172	87	6	599
--STATE HIGHWAY 41 BRIDGE--	258.33															
W. E. Roberts 1	258.80L	1- 6						1	42	46	26	42	39	34	11	241
W. E. Roberts 2	258.90L	1-12	32	1	1				39	51	62	127	121	118	126	678
J. E. Cobb	259.39R	2- 6							49	13	40	67	102	67	5	343
--OLD LANES BRIDGE--	259.78															
J. E. Cobb 3	260.40R	1- 6	62	24					66	76	120	104	117	103	68	760
R. C. Arnold	261.53R	1- 4 1- 5	28	5					49	82	92	84	99	79	21	539
Duane M. Folsom	261.70L	1- 6	14						10	35	69	73	96	101	50	448
E. G. Rank, Jr.	262.32L	1- 5	19						29	62	47	78	108	100	46	489
Dale McCoon 1	262.60R	1- 5							15	4	72	135	114	6		346
W. H. Rohde	262.66L	1- 7	4					3	23	8	11	45	58	62	19	233
Dale McCoon 2	263.40R	1- 7									66	144	110	5		325
Dale McCoon 3	263.48R	1- 6								13	45	36	70	91	17	272
H. K. Jensen	263.76R	1- 5					46		42	59	74	69	82	69	48	489
H. W. Ball 4	264.08L	1- 6	18					8	18		25	39	68	77	99	352
Ike D. Ball	264.60R	1- 6	89	23				25	70	108	117	111	114	109	92	858
W. F. Ball	264.83L	1- 4 1- 5	28	10					18	48	67	82	69	71	59	452
Virgil Durando	267.56L	1- 8	24	7	1	4		2	75	114	27	152	160	212	194	992
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L															
--FRIANT BRIDGE--	268.88															
--COTTONWOOD CREEK--	269.53R															
--FRIANT DAM--	269.63															
<u>GRAVELLY FORD TO FRIANT DAM</u>																
Total			591	92	2	51	154	992	1466	1982	2457	2640	2172	1465		14080
Average cubic feet per second			10	2	0	1	3	16	25	32	41	43	35	25		19
Monthly use in percent of seasonal			4.2	0.7	0	0.4	1.1	7.0	10.6	14.1	17.4	18.7	15.4	10.4		

a Installed prior to 1966. Not previously listed.
 b Bridge relocated approximately 400 feet upstream.

c Point of diversion and place of use is on island in midstream.

TABLE B-6 (Cont.)
 DIVERSIONS - STANISLAUS RIVER
 October 1966 through September 1966

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET										TOTAL DIVERSION OCT-SEPT ACRE-FEET		
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY		AUG	SEPT
Moreno Brothers	1.9 R	1-16	46						181	2		113		13	410
C. C. Angyal	2.4 R	1-18	9	1				169	489	433	216	166	679	69	2131
Faith Ranch	3.4 L	2-12 1-16	46	141				406	495	348	449	301	114	632	2932
Reclamation District 2064	4.0 R	1-14 1-16 2-20	704	115				103	146	184	252	225	264	189	1440
Reclamation District 2075	4.05R	2-16 1-20	812					610	1670	2516	227	34	259	200	15010
D. F. Koetitz	4.7 L	1-20	26						30	284	283	90	226	354	1814
E. T. Mape	4.751	1-20	496	91				7	167		416	138	192		1417
Henry Pelucca	5.5 L	1-16									16	139	112	22	434
Alice Gall	6.4 L	1-14	134					92	41	146	164	244	212	111	1144
D. J. Macedo	8.4 R	1-16	174					166	444	41	261	636	566	377	3009
N. E. Cannon	8.7 R	1-10	41					100	255	286	301	299	311	188	1781
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35														
D. F. Koetitz	9.4 L	1-12	99					2	120	295	391	384	346	43	2270
John L. Hertle	9.8 L	1-10						27	24	42	59	36	17	21	228
Joe Laurence b	10.0 R	1-16						30	38	36	21	66	79	112	382
Joe Laurence b	10.5 R	1-16						182	341	341	286	368	113		1631
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7 L	1-16							164	245	210	411	122	141	1296
E. J. Freethy	19.0 R	1-14					21	66	16	176	176	131	10	9	711
Libby, McNeill and Libby	20.9 R	1-14						97	205	1	326	344	312	181	1466
Heath Ranch	21.2 L	1- 6						PLANT REMOVED							
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	33.4														
--GAGING STATION - STANISLAUS RIVER AT RIVERBANK--	33.6														
Oakdale Irrigation District c (Crawford Pump)	37.7 L	1-14						69	64	104	211	173	232		3
Oakdale Irrigation District c (Brady Pump)	39.1 L	1-12					26		183	211	144	208	9	244	1114
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.8														
--KNIGHTS FERRY BRIDGE--	54.6														
STANISLAUS RIVER															
Total			2527	348			49	178	1812	1881	1824	3492	8999	676	491
Average cubic feet per second			41	6			1	2	1	24	14	14	14	114	7
Monthly use in percent of seasonal			4.6	6			1.1	1.8	2.4	4.4	16.1	11.3	16.4	12.3	1.1

a Includes an undetermined amount of water returned to river by spill.

b Oakdale Irrigation District for season of 1966 maintains plants at miles 37.7L and 39.1L to supplement district gravity supply.

TABLE B- (Cont.)
 DIVERSIONS - TUOLUMNE RIVER
 October 1965 through September 1966

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE- FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
E. T. Mape	1.3 R	2-14	202	74	12			133	203	491	900	989	771	292	5092
J. V. Steenstrup Estate	1.9 L	2-12						271	233	64	340	289	460	200	1964
J. V. Steenstrup Estate	2.9 L	1-10 1-12					1	357	155	402	337	346	192	39	1919
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10	14		3		4	20	49	46	52	54	58	10	310
Della Battestin	5.9 L	1-16							41	485	923	619	555	313	2936
Western Farms	6.3 L	1-16						25	74	234	187	226	99		845
Eugene Boone, Galen Hartwich, and Dr. Harold Willis	7.1 R	1-10						17	51	36	59	54	65	50	332
Beth Wootten	8.4 R	1-10							21		104	121	111	62	419
James A. McCleskey	9.4 L	1-16			2	1		11	31	435	506	535	939	547	3007
James A. McCleskey (b)	9.7 R	1-16							34	105	89	120	99		450
Homer Couchman	10.2 R	1-14	15		1		1	17	185	63	123	146	157	81	784
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--CRY CREEK--	16.5 L														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	9					16	21	24	43	34	44	38	129
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--CEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.0 R	1- 8						19	59	46	87	91	83	41	446
J. W. and Lola Mae Short	29.8 L	1-10						PLANT DROPPED							
Firpo Ranch	30.2 L	1-10	27	4				30	73	58	70	66	71	22	432
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	22						120	46	121	76	82	75	542
Westley N. Sawyer	39.8 L	1- 8	16	2				7	103	105	87	105	63	61	549
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 R	1-14	3					5	116	101	132	137	107	75	676
Curtner Zanker	45.7 R	1-10	1	1		3	1		42	41	81	42	51	33	296
Dolling Brothers	46.3 R	1- 8	42	22				18	56	111	67	85	119	53	573
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
TUOLUMNE RIVER															
Total			551	123	18	4	7	1448	2277	2896	4300	4105	4116	2023	21710
Average cubic feet per second			6	2	0	0	0	24	38	47	32	67	67	34	30
Monthly use in percent of seasonal			1.0	0.6	0.1	0	0	6.7	10.5	13.3	19.8	19.1	19.0	9.3	

a Replaces a 20-inch unit.

b Formerly listed as McClure Ranches.

TABLE B-6 (Cont.)
 DIVERSIONS - DRY CREEK
 October 1965 through September 1966

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE- FEET			
			OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEPT		
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7																
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8																
--LA LOMA BRIDGE--	1.2																
--EL VISTA AVENUE BRIDGE--	2.9																
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.4 L																
--CLAUS ROAD BRIDGE--	5.4																
--SANTA FE RAILROAD BRIDGE--	6.4																
--CHURCH STREET BRIDGE--	7.2																
--WELLSFORD ROAD BRIDGE--	8.7																
--ALBERS ROAD BRIDGE--	11.0																
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1																
Edward Johnson	12.6 R	1- 6						11	22	74	21	3	31	34			200
Edward Johnson	12.7 R	1- 6						8	5		45	80	83	52			273
Joe Fagundes	14.7 R	1-10	60					60	186	221	154	198	235	41			1,236
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4																
DRY CREEK																	
Total			61					79	213	287	249	331	349	179			1,771
Average cubic feet per second			1					1	4	3	4	5	6	3			2
Monthly use in percent of seasonal			4.7					4.8	12.0	16.2	14.1	18.0	19.0	11.1			

TABLE B-6 (cont.)
 DIVERSIONS - MERCED RIVER
 October 1965 through September 1966

WATER USER	MILE AND BANK FROM MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET		
			DCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.			
--HILLS FERRY BRIDGE--	1.1																
Stevinson Water District a b	1.7 R	e 1-21	18							262	312	438	531	476	51		2110
Stevinson Water District d	3.3 L	1-20										190	827	1020	848		2585
Stevinson Water District e	3.8 R	1-18	86			1-1	50	166	353	342	515	739	543	280			3242
Wilton Gordon	4.3 L	f 1-16	2	5				1	14	85	65	62	102	39			375
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6																
Maria DeAngelis	5.8 L	1-12	20					1	55	23	75	94	95	34			374
Stevinson Water District	6.1 L	1-20	144	27	2			385	343	428	483	460	611	340			3223
Stevinson Water District g	7.7 L	1-20	74					462	478	318	637	949	1040	706			4666
Manuel Clementino	8.5 L	1-12						3	32	17	59	37	50	99			297
Manuel Clementino	8.9 L	1-12	13					5	93	81	85	60	61	73			471
Samuel B. McCullagh	9.4 L	1-8						100	110	41	182	2	330	118			883
Mrs. J. R. Jacinto	9.6 L	1-12						50	90	62	90	155	213	65			725
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	1-10	66	116	3	1	2	23	165	144	240	196	246	61			1263
Manuel Freitas	10.4 L	1-12	30		1			52	113	59	124	131	159	119			789
R. E. Prusso and John Vaera	10.4 L	1-8 1-12	35	1				61	41	73	68	91	113	43			526
E. and J. Gallo Winery Ranch	11.6 L	1-18		13	9			111	81	69	237	335	152				1007
--MILLIKEN BRIDGE--	11.65																
Anthony L. Calderia	12.5 R	1-12	6					17	57	59	47	80	82	70			378
E. and J. Gallo Winery Ranch	12.85L	1-12		14				12	24	28	115	181	52				426
J. M. Souza	14.5 L	1-10	24					16	16	61	71	68	64	46			366
E. and J. Gallo Winery Ranch	16.5 L	1-14		12				33	14	132	131	134					456
J. E. Gallo	20.4 L	1-8	4*					37	37	90	144	239	29				623
--U. S. HIGHWAY 99 BRIDGE--	21.04																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05																
Gallo Cattle Company	22.2 R	1-10 1-12	1	91				17	124	186	175	230	170				994
Gallo Cattle Company	22.8 R	1-12 1-15		67				60	83	85	174	274	41				784
Merced River Farms Association	26.3 R	1-8	20					3	46	43	57	60	60	14			303
--SANTA FE RAILROAD BRIDGE--	27.05																
W. C. Magnuson	27.5 R	1-10	23					6	38	54	58	55	52				286
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55																
--CRESSEY BRIDGE--	27.55																
Manuel Silva	29.9 R	1-6 1-15										109	48	64			221
Manuel Silva	30.95R	1-12						23	114	66	69	52	104	35			463
Rancho Con Valor	31.1 L	1-8 1-12		1				42	114	119	128	154	122	53			733
Manuel Silva	31.4 R	1-10	7							38	264	230	228	17			784
P. Hilarides	32.2 L	1-12	24					29	89	12	38	63	161	163			579
--SHAFFER BRIDGE--	32.5																
Harry P. Schmidt and Sons	33.1 R	1-10								6	136	49	101	58			350
W. F. Bettencourt, P. Hilarides, and Cowel Lime and Cement Co.	36.9 L	Gravity	220	383	430			46	616	956	1140	1400	533	319			6053
Amsterdam Orchards Incorporated	39.1 L	1-14	35	26	1	2	2	152	14	7	12	52	324	12			639
Ratzlaff Brothers	40.2 L	1-2 1-4	1					11	29	32	48	55	50	21			247
--COX FERRY BRIDGE--	42.1																
Cowel Ditch	45.3 R	Gravity	713	1320				77	1980	3110	3350	2790	2720	484			16540
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2																
Torgenson Ditch j	46.3 R	Gravity						43	1120	1500	1290	1460	1220	121			6750
--SNELLING BRIDGE--	46.4																
Cook and Dale Ditch	47.0 R	Gravity						60	948	974	958	1090	998	458			5486
Ruddle Ditch j	47.9 R	Gravity							2310	2890	2760	2640	2300	1510			14410
Canevaro Ditch j	50.7 R	Gravity						120	462	682	714	770	908	284			3840
MERCED RIVER																	
Total			1582	2123	446	154	55	2185	10450	13190	15390	16900	15560	6199			84230
Average cubic feet per second			24	36	7	2	1	36	174	215	239	275	253	104			124
Monthly use in percent of seasonal			1.9	2.5	0.5	0.2	0.1	2.6	12.4	15.6	18.3	20.0	18.5	7.4			

a Previously listed as Stevenson Water District #1.
 b Plant moved from mile 1.8L to 1966.
 c Replaces a 16-inch unit.
 d New installation in 1966.
 e Previously published as Stevenson Water District #2.

f Replaces a 10-inch unit.
 g Previously published as Stevenson Water District #3.
 h The 12-inch unit was installed in 1966.
 i Includes an undetermined amount of water returned to river by spill.
 j Diverted prior to 1966. Not previously listed.

TABLE B-6 (Cont.)
 DIVERSIONS - TULE RIVER
 October 1965 through September 1966

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT - SEPT ACRE- FEET			
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEPT		
--SUCCESS DAM--	0.0																
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35																
Campbell Moreland Ditch	2.4 I	Gravity	1136	29		973	119		426	436	306	497	108	72		482	
--PORTER SLOUGH--	2.4 R																
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (8 LANE BRIDGE)--	a (2.4)																
--PIONEER SPILL--	a (3.7R)																
Porter Slough Ditch	a (4.5R)	Gravity	61		71			412	344		112						1088
--GAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	a (6.1)																
Vandelia Ditch	3.1 L	Gravity	112			187					86	211	64				660
--SANTA FE RAILROAD BRIDGE--	5.1																
Poplar Ditch	5.8 L	Gravity	3568	221	262	52	62	844	305	516	1123	941	470				8364
--MAIN STREET BRIDGE--	5.9																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0																
Hubbs-Miner Ditch	6.4 R	Gravity	604				258	329	296	290	327	568	321	213			3196
--STATE HIGHWAY 65 BRIDGE--	6.6																
Rhodes-Fine Ditch	8.4 L	Gravity						397	184	77							458
--OLIVE AVENUE BRIDGE--	9.9																
--FRIANT-KERN CANAL CROSSING--	10.5																
Woods-Central Ditch	11.0 L	Gravity	1281		80	244						4132					7737
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8																
--OTTLE BRIDGE--	14.4																
<u>TULE RIVER</u>																	
Total			6762	250	413	1450	439	2065	1555	1622	2154	6349	1360	275			24701
Average cubic feet per second			110	4	7	24	8	34	26	26	36	103	22	5			34
Monthly use in percent of seasonal			27.4	1.0	1.7	5.9	1.8	8.3	6.3	6.6	8.7	25.7	5.5	1.1			

Records furnished by the Tule River Association and reviewed by the Department of Water Resources. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE B-7
 DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
 October 1965 through September 1966

WATER USER	DIVERSION												ACREAGE IRRIGATED			
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE	
<u>Frijant-Kern Canal</u>																
	San Joaquin River ^b															
Total acre-feet diverted	68137	33372	13560	73249	78665	121194	73708	66683	144984	153644	119029	56737	1002962			
Average cubic feet per second	1108	561	221	1191	1416	1971	1239	1084	2437	2498	1936	954	1385			
Monthly use in percent of seasonal	6.8	3.3	1.4	7.3	7.8	12.1	7.3	6.6	14.5	15.3	11.9	5.7				
<u>Madera Canal</u>																
Total acre-feet diverted	12119	0	0	0	6861	30766	16885	7174	45160	69940	32027	157	221089			
Average cubic feet per second	197	0	0	0	124	500	284	117	759	1137	521	3	305			
Monthly use in percent of seasonal	5.5	0	0	0	3.1	13.9	7.6	3.3	20.4	31.6	14.5	0.1				
<u>Merced Irrigation District</u>																
Merced River																
Main Canal	0	0	0	0	5373	70482	69551	78457	65033	0	538	0	288896	c	107033	5666
Northside Canal	367	361	353	246	222	528	2947	3455	3695	3039	811	0	16562	c	3544	
Total acre-feet diverted	367	361	353	246	222	5901	73429	73006	82152	68072	811	538	305458		110577	
Average cubic feet per second	6	6	6	4	4	96	1187	1301	1107	13	9	9	422			
Monthly use in percent of seasonal	0.1	0.1	0.1	0.1	0.1	1.9	24.0	23.9	26.9	22.3	0.3	0.2				
<u>Turlock Irrigation District</u>																
Tuolumne River																
Total acre-feet diverted	17138	2009	1698	18033	87	49097	88721	72258	71968	67170	80162	48236	516577	e	172695	
Average cubic feet per second	279	34	28	293	2	798	1491	1175	1209	1092	1304	811	714			
Monthly use in percent of seasonal	3.3	0.4	0.3	3.5	0	9.5	17.2	14.0	13.9	13.0	15.5	9.4				
<u>Modesto Irrigation District</u>																
Total acre-feet diverted	27239	71	55	51	0	23165	46562	31524	36007	35291	31490	18207	249671	g	64506	472
Average cubic feet per second	443	1	1	1	0	377	783	513	605	574	512	306	345			
Monthly use in percent of seasonal	10.9	0	0	0	0	9.3	18.7	12.6	14.4	14.2	12.6					
<u>Waterford Irrigation District</u>																
Total acre-feet diverted	2495	0	0	0	0	2512	5165	5218	4813	4402	4492	3942	33039	h	6950	
Average cubic feet per second	41	0	0	0	0	41	87	85	81	72	73	66	46			
Monthly use in percent of seasonal	7.6	0	0	0	0	7.6	15.6	15.8	14.6	13.3	13.6	11.9				
<u>Oakdale Irrigation District</u>																
Stanislaus River																
Northside Canal	9770	75	0	0	0	6086	18416	18936	14406	13933	13640	10523	105785	j	20413	3265
Southside Canal	15070	0	0	0	0	11561	25458	27732	22634	21874	21661	18450	164440	k	34172	515
Total acre-feet diverted	24840	75	0	0	0	17647	43874	46668	37040	35807	35301	28973	270225	m	54585	3780
Average cubic feet per second	404	1	0	0	0	287	737	759	622	582	574	487	373			
Monthly use in percent of seasonal	9.2	0	0	0	0	6.5	16.2	17.3	13.7	13.3	13.1	10.7				
<u>South San Joaquin Irrigation District</u>																
Total acre-feet diverted	7662	268	0	0	1734	15177	43691	43103	40978	37049	35212	24295	249169	n	61922	76
Average cubic feet per second	125	5	0	0	31	247	734	701	689	603	573	408	344			
Monthly use in percent of seasonal	3.1	0.1	0	0	0.7	6.1	17.5	17.3	16.4	14.9	14.1	9.8				

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.
 b An additional 208,633 acre-feet of water was pumped from wells.
 c Of this acreage, 1,615 were double cropped. Does not include an undetermined amount of riparian water users acreage.
 d An additional 216,574 acre-feet of water was pumped from wells.
 e Of this acreage, 21,088 were double cropped.
 f An additional 84,879 acre-feet of water was pumped from wells.
 g Of this acreage, 8,965 were double cropped.

h An additional 7,369 acre-feet of water was pumped from wells.
 i Of this acreage, 208 were double cropped.
 j Of this acreage, 230 were double cropped.
 k Of this acreage, 294 were double cropped.
 l This acreage also received 50,924 acre-feet of water from wells and controlled drainage.
 m This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 4,311 were double cropped. Includes 1,113 acres served by subirrigation.

TABLE 1
DELIVERIES FROM CENTRAL VALLEY PROJECT CANAL
October 1961 through September 1966

WATER USER	MILE POST FROM CANAL HEAD FROM TO		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
			Delta-Merced Canal												
State of California (South Bay Aqueduct)	3.4		1093	246	269	0	1453	3153	5161	7173	7203	7293	7464	336	3693
Plain View Water District	4.22	27.96	174	123	0	0	5	956	2494	3287	3238	4113	3840	2384	21104
Gallaher and Burks, Incorporated	7.51		5	16	3	0	12	6	13	20	4	13	11	0	113
West Side Irrigation District	14.79		0	0	0	0	0	163	436	733	397	841	1134	95	3798
McNamara Corporation of California	16.24	18.04	2	0	0	0	0	0	0	0	0	0	0	0	2
Wunderlich Corporation	16.25		36	12	1	6	5	22	22	28	26	31	29	26	244
Hospital Water District	18.06	30.96	678	124	0	0	114	1885	3981	3936	4676	5225	3387	2567	46573
Banta-Carbona Irrigation District	20.42		0	0	0	0	0	609	2235	1895	1380	4427	5200	2569	18315
A. Teichert & Son, Incorporated	20.96		8	1	0	0	0	3	2	0	0	0	0	0	14
Fredrickson & Watson Construction Company	21.48	39.78	18	9	0	0	8	21	43	30	94	165	175	129	692
West Stanislaus Irrigation District	31.31		0	0	0	0	0	0	8080	2618	3699	8531	9530	3701	36159
Kern Canon Water District	31.31	35.00	170	1	0	0	1	361	1799	1010	1293	1690	1342	642	8309
Del Puerto Water District	35.73	42.51	309	37	0	0	1	1513	2346	2058	3275	2736	2609	1624	16508
Western Contracting Corporation	41.49		63	75	20	0	3	42	57	50	80	82	88	106	866
Salado Water District	42.10	46.83	246	55	0	0	0	127	1447	1424	2252	2242	1594	798	11137
Patterson Water District	42.51		13	0	0	0	0	260	847	494	694	465	496	263	3532
Sunflower Water District	44.23	52.02	109	73	0	0	0	473	2382	1910	1925	2986	2336	778	12974
Orestamba Water District	46.83	51.41	13	0	0	0	0	79	2472	2216	1092	3034	1798	195	10899
Foothill Water District	51.60	57.46	442	38	3	0	17	566	938	1302	1477	1923	1476	1192	9374
Dava Water District	53.64	56.82	44	1	0	0	2	138	299	730	303	690	399	71	2677
Mustang Water District	54.80	62.76	78	0	0	0	0	579	871	834	1097	1532	1156	706	6847
Peter Kiewit and Sons Company	62.87		34	18	2	0	2	12	16	24	25	32	57	78	300
Quinto Water District	64.32	67.95	63	0	0	0	0	650	538	770	821	956	1065	492	5355
Romero Water District	68.03		0	0	0	0	0	10	0	164	85	125	238	89	711
San Luis Water District	68.99	90.51	1916	750	101	0	2545	7704	8902	8434	11909	12092	9292	3945	67590
San Luis Water District, Municipal and Industrial	69.21		216	297	9	0	20	7	12	13	18	19	19	48	678
Graselanda Water District	70.00		10538	0	0	0	0	0	0	0	0	0	0	1414	11952
Graselanda Water District	Holding Res.		0	0	0	0	0	0	378	845	512	910	476	0	3121
Sam Hamburg Farm	90.53		1	0	0	0	1	2	2	2	3	1	3	3	18
Panoche Water District	93.25	96.70	2145	3177	478	0	3273	8952	7317	6071	10014	9276	8483	3481	62707
Eagle Field Water District	93.27	94.57	105	219	0	0	32	893	375	335	690	590	714	319	4262
Oro Loma Water District	95.50	96.62	0	0	0	0	0	0	646	1142	110	1042	867	15	4732
West Side Golf Association	95.95		8	5	0	0	6	5	12	17	18	30	28	17	146
Mercy Springs Water District	97.70	99.81	18	0	0	0	0	0	831	1014	1098	1218	405	0	4584
Widren Water District	102.03		0	0	0	0	3	178	153	347	248	291	353	122	1695
Broadview Water District	102.95		634	296	91	0	1008	4390	1847	2238	305	2898	1620	816	18888
Central California Irrigation District	60.65	76.00	4176	272	0	0	66	1474	7789	10222	10515	11316	12132	5274	63526
U. S. Bureau of Reclamation Construction			289	102	17	0	388	368	459	461	286	209	355	330	3266
Total			29556	8164	894	6	8965	3690	65222	63851	74121	77113	79893	39571	456963
Net Deliveries DNC to Mendota Pool			7494	26789	5614	0	2861	15225	11251	133319	154439	173151	162795	8481	1059946
			Mojave Lake												
Fresno County Water District #15			8	3	1	2	2	5	11	15	18	22	21	12	121
County of Madera (a)			1	1	1	1	1	1	1	1	1	1	2	1	11
Total			9	4	2	2	2	6	12	16	19	23	23	13	132
			Madera Canal												
Madera Irrigation District	6.1	32.2	829	0	0	0	61	1638	9725	7174	2663	4265	711	0	123736
Adobe Ranch	2.6		0	0	0	0	0	0	0	0	0	0	0	0	11
Chowchilla Water District	30.9		5290	0	0	0	14386	7161	0	0	272	246	0	0	9794
Total			12119	0	0	0	661	3766	16885	7174	4516	6994	1221	11	221989

TABLE B-8 (Cont.)
 DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
 October 1965 through September 1966

WATER USER	MILE POST FROM CANAL HEAD FROM TO		MONTHLY DELIVERIES IN ACRE-FEET											TOTAL	
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEPT
			Frisant-Kern Canal												
Gerfield Water District	7.53		232	105	230	0	64	212	371	601	541	593	387	126	3462
Dog Creek Water District	14.8		0	6	0	0	0	0	0	0	0	0	0	0	6
International Water District	14.9		80	0	0	0	0	103	163	254	259	189	182	100	1330
Round Mountain Water District	20.85	21.33	17	8	0	0	0	0	0	0	0	0	0	0	25
Round Mountain Ranch	20.22		3	2	0	0	0	8	2	2	0	8	12	3	40
Trimmer Springs Water District	27.56		6	0	0	0	0	0	0	0	0	0	0	0	6
Consolidated Irrigation District	28.50		0	0	0	19360	15348	0	0	0	0	0	0	0	34708
Last Chance Water Ditch Company	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Corcoran Irrigation District	28.50		0	0	0	5530	0	0	0	0	0	0	0	0	5530
Stretford Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District	28.50	95.64	0	0	0	0	0	0	0	0	0	0	0	0	0
Alta Irrigation District	28.50		0	0	0	2771	0	0	0	0	0	0	0	0	2771
Fresno Irrigation District	28.50		0	0	0	0	0	21398	545	0	32597	15961	103	849	71453
Murphy Slough Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings County Water District	28.50	71.29	0	0	0	11070	18002	0	0	0	0	0	0	0	29072
Orange Cove Irrigation District	35.87	53.31	2533	843	22	0	0	1648	3144	4268	5492	6619	6579	3785	34933
City of Orange Cove	43.44		28	13	9	0	3	23	37	44	45	48	54	43	347
Stone Corral Irrigation District	56.90	64.40	357	125	0	0	10	787	785	823	1343	1787	1636	813	8526
Ivanhoe Irrigation District	65.04	68.13	2025	694	0	161	0	363	783	1041	1521	1799	1730	1321	11438
Tulare Irrigation District	68.14	71.29	10084	0	0	0	11996	30465	0	0	12252	16893	0	0	81690
Lakeside Irrigation Water District	69.42		0	0	0	5534	5784	0	0	0	0	0	0	0	11318
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	13831	4001	0	0	0	0	0	0	0	17832
Exeter Irrigation District	72.52	79.24	1603	821	38	24	341	1585	2670	2323	2216	2394	2295	932	17242
Lewis Creek Water District	81.54		0	0	0	0	0	0	0	0	0	0	0	0	0
Lindsay-Strathmore Irrigation District	85.56		2904	1067	73	8	58	1234	3241	3931	4362	5004	5284	3965	31131
Lindmore Irrigation District	86.17	91.12	2955	1337	0	20	863	3308	4544	4576	6173	7287	5883	3777	40723
Porterville Irrigation District	93.93	98.62	728	653	7	232	780	2045	2156	1807	4058	5078	3215	1591	22350
Lower Tule Irrigation District	95.67	98.62	23062	15327	8916	6268	11673	3546	12843	10370	22005	26490	20422	5223	166145
Tea Pot Dome	99.35		440	204	3	0	0	200	520	621	744	865	938	631	5166
Saucelito Irrigation District	98.62	107.37	2271	734	52	32	1462	5310	3517	2561	4393	5851	5344	1819	33346
Cloer Community Service District	101.60		0	0	0	0	0	0	0	0	0	0	0	0	0
Terre Bella Irrigation District	102.65		1337	587	1	0	0	175	1964	2265	2674	3063	3287	2216	17569
Fixley Irrigation District	102.69		3201	2928	1954	938	2472	3001	0	0	0	0	0	0	14494
Delano-Earlimart Irrigation District	109.48	118.45	7178	4300	1626	593	3917	23048	17036	14269	19563	20712	19153	8745	140140
Southern San Joaquin Municipal Utility District	117.44	127.97	4457	2329	214	0	740	16090	14720	11242	15997	19343	20319	9997	115448
Rag Gulch Water District	117.96		468	466	0	0	282	0	0	0	0	0	0	0	1216
Shafter-Wesco Irrigation District	134.42	137.17	2168	823	244	6	579	6645	4667	5685	8563	9019	9366	3656	51421
Pacific Gas & Electric Company	150.83		0	0	117	746	276	0	0	0	0	0	0	0	1139
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	3009	0	0	0	0	0	0	0	0	3009
Buena Vista Water Storage District	151.80		0	0	0	3009	0	0	0	0	0	0	0	0	3009
Arvin-Edison Water Storage District	151.80		0	0	54	107	14	0	0	0	186	4641	12790	7145	24927
Total			68137	33372	13560	73249	78665	121194	73708	66683	144984	153644	119029	56737	1002962

Data furnished by the U. S. Bureau of Reclamation. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries include operational spill.

- a Formerly listed as Ralston Associates.
- b Includes deliveries to City of Fresno.
- c Includes water transported from Wutchanna Ditch.

TABLE B-9
 IMPORTS AND EXPORTS
 October 1965 through September 1966

WATER USER													TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Delta-Mendota Canal	Imports from Delta												
Total acre-feet	97598	32267	0	3871	46146	145556	173382	192293	224524	263116	243766	122961	154111
Average cubic feet per second	1587	542	0	66	83	2367	2914	312	3773	4279	3964	2,666	2137
Monthly use in percent of seasonal	6.3	2.1	0	0.2	3.0	9.4	11.2	12.4	14.	17.	15.8	8.0	
City and County of San Francisco	Exports from Tuolumne River												
Total acre-feet	15655	12685	14987	7812	11913	15566	11060	15208	18388	21398	21312	19498	185482
Average cubic feet per second	255	213	244	127	215	253	186	247	309	348	347	328	256
Monthly use in percent of seasonal	8.5	6.8	8.1	4.2	6.4	8.4	6.0	8.2	9.9	11.5	11.5	10.5	

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation; data for Tuolumne River exports furnished by City and County of San Francisco. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

TABLE B-10

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14							DRY						14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

CREST STAGES

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 180 feet. U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1966	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.04	2.07	1.77	1.78	1.76	1.74	2.20	2.41	2.46	2.43	2.60	2.44	1
2	2.00	2.08	1.89	1.76	1.76	1.74	2.20	2.41	2.45	2.43	2.60	2.39	2
3	1.96	2.09	1.91	1.75	1.75	1.74	2.20	2.45	2.45	2.43	2.60	2.39	3
4	1.96	2.09	1.91	1.74	1.75	1.73	2.20	2.50	2.45	2.43	2.58	2.39	4
5	1.96	2.09	1.91	1.74	1.78	1.73	2.20	2.55	2.45	2.46	2.56	2.39	5
6	1.96	2.09	1.90	1.72	1.83	1.74	2.20	2.53	2.44	2.52	2.56	2.38	6
7	2.02	2.09	1.88	1.71	1.86	1.74	2.21	2.50	2.44	2.54	2.56	2.38	7
8	2.07	2.08	1.90	1.71	1.85	1.80	2.21	2.50	2.44	2.54	2.56	2.38	8
9	2.08	2.07	1.96	1.71	1.85	1.91	2.20	2.50	2.42	2.54	2.55	2.38	9
10	2.08	2.07	1.96	1.70	1.84	1.92	2.22	2.44	2.39	2.54	2.55	2.38	10
11	2.08	2.07	1.97	1.75	1.83	1.92	2.21	2.38	2.39	2.54	2.55	2.38	11
12	2.08	2.07	1.97	1.78	1.81	1.92	2.21	2.38	2.38	2.54	2.55	2.38	12
13	2.09	2.09	1.97	1.79	1.81	1.91	2.21	2.39	2.38	2.56	2.55	2.38	13
14	2.09	2.10	1.96	1.78	1.81	1.99	2.21	2.37	2.38	2.60	2.54	2.38	14
15	2.09	2.06	1.94	1.79	1.81	2.13	2.21	2.37	2.38	2.60	2.54	2.38	15
16	2.08	2.03	1.94	1.79	1.81	2.14	2.21	2.36	2.38	2.57	2.54	2.38	16
17	2.07	2.01	1.95	1.79	1.81	2.15	2.22	2.36	2.41	2.54	2.54	2.37	17
18	2.07	1.96	1.95	1.79	1.81	2.18	2.23	2.37	2.44	2.52	2.54	2.37	18
19	2.08	1.93	1.95	1.78	1.81	2.23	2.26	2.37	2.44	2.50	2.54	2.37	19
20	2.08	1.85	1.95	1.78	1.80	2.23	2.19	2.37	2.47	2.50	2.54	2.37	20
21	2.08	1.76	1.95	1.77	1.80	2.22	2.23	2.38	2.49	2.50	2.53	2.37	21
22	2.08	1.76	1.94	1.77	1.80	2.22	2.23	2.39	2.50	2.50	2.53	2.37	22
23	2.08	1.76	1.94	1.76	1.80	2.22	2.23	2.39	2.51	2.50	2.53	2.37	23
24	2.08	1.76	1.93	1.76	1.81	2.21	2.23	2.39	2.49	2.49	2.53	2.38	24
25	2.08	1.75	1.93	1.79	1.80	2.21	2.23	2.42	2.46	2.49	2.55	2.29	25
26	2.08	1.74	1.93	1.79	1.79	2.21	2.24	2.46	2.46	2.53	2.57	2.28	26
27	2.08	1.75	1.93	1.78	1.79	2.21	2.24	2.46	2.46	2.56	2.56	2.27	27
28	2.08	1.76	1.91	1.76	1.75	2.21	2.28	2.46	2.45	2.58	2.56	2.25	28
29	2.06	1.76	1.89	1.73	2.22	2.22	2.36	2.46	2.43	2.61	2.55	2.26	29
30	2.06	1.76	1.85	1.75	2.22	2.22	2.42	2.46	2.43	2.60	2.53	2.27	30
31	2.07		1.79	1.78	2.21	2.21		2.46		2.60	2.50		31

CREST STAGES

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
7-29-66	0900	2.62									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATUM		1938	---	294.00	USGS

Station located 2 miles downstream from Friant Dam. Flow regulated by Millerton Lake beginning in 1944, and by other reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		NR	NR	NR									1
2		NR	NR	NR									2
3		NR	NR	NR									3
4		NR	NR	NR									4
5		NR	NR	NR									5
6		NR	NR	NR									6
7		NR	NR	70.40E									7
8		NR	NR	70.33E									8
9		NR	NR	70.26E									9
10		NR	NR	70.20E									10
11		NR	NR	70.14E									11
12		NR	NR	70.07E									12
13		NR	NR	70.00E									13
14	N	NR	NR	69.94E	N	N	N	N	N	N	N	N	14
15	O	69.40	NR	69.87E	O	O	O	O	O	O	O	O	15
16		69.40	NR	69.80E									16
17	R	71.63	NR	69.74E	R	R	R	R	R	R	R	R	17
18	E	70.04	NR	69.68E	E	E	E	E	E	E	E	E	18
19	C	69.95	NR	69.60E	C	C	C	C	C	C	C	C	19
20	O	69.40	NR	69.55E	O	O	O	O	O	O	O	O	20
21	R		NR	NR	R	R	R	R	R	R	R	R	21
22	D		NR	NR	D	D	D	D	D	D	D	D	22
23		71.05	NR	NR									23
24		NR	NR	NR									24
25		NR	NR	NR									25
26		NR	NR	NR									26
27		NR	NR	NR									27
28		NR	NR	NR									28
29		NR	NR	NR									29
30		NR	NR	NR									30
31			73.27	NR									31

CREST STAGES

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-17-65	0855	74.10									
12-31-65	2105	74.56									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 15 36	119 56 42	SE 1 8S 18E	8497E	83.9	2-1-63	NOV 59-SEP 62	OCT 62-DATE	1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District. It is a flood control warning station, equipped with a Stevens Surface Detector and Telemark. Low flows are not recorded. Prior to 1962, high flow records were insufficient for publication. Discharge measurements and partial flow records are available in DWR files. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 500 feet to all of the above gage heights. Drainage area is 201.7 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	601515	AN JOAQUIN RIVER ABOVE SANTA RITA BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1						NF	10.77	10.61	10.72	NF	10.78	10.86	1
2						NF	10.69	10.63	NF	NF	10.82	10.83	2
3						NF	10.48	10.61	10.38	NF	10.77	NF	3
4						NF	10.31	10.65	10.44	NF	10.47	NF	4
5						NF	10.21	10.77	10.77	10.37	10.46	10.37	5
6						NF	10.27	10.65	10.76	10.33	NF	10.78	6
7						NF	10.15	10.61	10.67	10.52	NF	10.61	7
8						NF	9.99	10.32	10.79	NF	10.77	10.54	8
9						NF	10.13	10.76	10.61	NF	10.46	10.56	9
10						NF	10.37	10.74	10.72	NF	NF	10.50	10
11						NF	10.66	10.54	10.40	NF	NF	10.45	11
12	N	N	N	N	N	NF	10.61	10.48	10.55	NF	NF	10.47	12
13	O	O	O	O	O	NF	10.52	10.61	10.70	NF	NF	10.60	13
14						NF	10.59	10.67	10.51	NF	NF	10.67	14
15						NF	10.54	10.54	NF	NF	NF	10.66	15
16	F	F	F	F	F	NF	10.47	NF	NF	10.52	NF	10.71	16
17	L	L	L	L	L	NF	10.49	NF	NF	10.78	NF	10.67	17
18	O	O	O	O	O	NF	10.60	NF	NF	10.74	NF	10.70	18
19	W	W	W	W	W	NF	10.59	NF	NF	10.44	10.45	10.64	19
20						NF	10.57	NF	NF	NF	10.47	10.73	20
21						NF	10.44	NF	NF	10.72	10.50	10.70	21
22						NF	10.58	NF	NF	10.56	10.56	10.47	22
23						NF	10.61	NF	NF	10.70	10.58	10.69	23
24						NF	10.47	NF	NF	NF	10.66	10.65	24
25						NF	NF	10.40	NF	NF	10.60	10.64	25
26						NF	NF	10.55	NF	NF	10.56	10.79	26
27						10.45 E	NF	10.55	10.52	NF	10.56	10.71	27
28						10.81	NF	10.48	10.54	NF	10.64	10.54	28
29						10.71	10.48	10.39	10.56	10.18	11.10	10.49	29
30						10.52	10.57	10.46	NF	10.38	11.13	10.47	30
31						10.30		10.53		10.33	10.71		31

CREST STAGES

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
8-30-65	0000	11.15									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 06 36	120 35 24	NE31 9S 13E	2110	16.55	2-12-62	OCT 61-SEP 62	OCT 62-DATE	1961		0.00	USCGS

Station located 5 miles northwest of Santa Rita Bridge and 5 miles west of El Nido. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 90 feet to all of the above gage heights.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B0740U	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	61.83	60.53	64.13	68.15	63.78	61.63	61.35	61.97	60.82	60.75	60.81	60.62	1
2	61.79	60.51	63.63	68.74	63.51	61.59	61.24	61.98	60.84	60.66	60.77	60.66	2
3	61.69	60.54	63.25	69.23	63.23	61.43	61.18	61.00	60.86	60.71	60.52	60.67	3
4	61.51	60.36	62.94	68.21	63.20	61.21	61.12	60.91	60.89	60.78	60.76	60.62	4
5	61.27	60.57	62.61	66.90	63.03	61.11	61.05	60.86	60.92	60.30	60.76	60.60	5
6	61.12	60.58	62.55	66.09	62.84	61.39	61.01	60.86	60.99	60.84	60.79	60.84	6
7	61.05	60.62	62.34	65.58	62.92	61.10	61.00	60.88	60.90	60.76	60.75	60.60	7
8	61.06	60.55	62.16	65.31	63.58	61.14	61.22	60.85	60.86	60.73	60.67	60.60	8
9	61.02	60.50	61.98	65.17	63.59	61.11	61.00	60.88	60.90	60.73	60.66	60.56	9
10	60.94	60.47	61.83	64.91	63.89	61.08	61.03	60.96	60.83	60.58	60.69	60.56	10
11	60.86	60.46	61.76	64.51	63.62	61.06	61.15	61.19	60.77	60.65	60.63	60.62	11
12	60.79	60.51	61.79	64.16	63.08	61.05	61.28	61.36	60.72	60.57	60.65	60.65	12
13	60.70	60.54	62.40	63.90	62.78	61.07	61.29	61.35	60.71	60.71	60.68	60.70	13
14	60.81	60.77	62.50	63.69	62.55	61.01	61.13	61.00	60.68	60.56	60.72	60.73	14
15	60.72	60.97	62.26	63.52	62.46	60.98	61.08	61.89	60.66	60.53	60.69	60.72	15
16	60.77	61.21	62.12	63.33	62.44	60.91	61.8	60.94	60.69	60.52	60.62	60.79	16
17	60.87	61.61	62.22	63.23	62.23	60.86	61.17	61.98	60.66	60.52	60.77	60.76	17
18	60.81	61.87	61.91	63.08	62.13	60.84	60.96	61.12	60.67	60.54	60.59	60.71	18
19	60.70	61.54	61.76	62.93	62.94	60.83	60.96	61.27	60.64	60.71	60.59	60.64	19
20	60.74	61.36	61.61	62.88	61.94	60.86	60.89	61.29	60.64	60.71	60.62	60.63	20
21	60.70	61.47	61.71	62.81	61.87	60.90	60.99	61.15	60.67	60.56	60.65	60.61	21
22	60.67	61.52	61.97	62.69	61.66	61.05	61.05	60.98	60.63	60.70	60.66	60.63	22
23	60.68	62.02	61.51	62.52	61.65	61.15	61.02	60.94	60.63	60.58	60.73	60.59	23
24	60.68	63.57	61.49	62.46	61.69	61.28	61.02	60.92	60.64	60.57	60.65	60.56	24
25	60.67	65.36	61.48	62.33	61.72	61.27	60.94	61.09	60.64	60.68	60.63	60.55	25
26	60.65	65.95	61.47	62.23	61.71	61.20	60.90	61.26	60.71	60.59	60.74	60.54	26
27	60.61	66.40	61.51	62.07	61.66	61.22	60.94	61.05	60.74	60.56	60.77	60.58	27
28	60.58	66.06	61.64	61.98	61.60	61.36	60.99	60.96	60.81	60.67	60.72	60.62	28
29	60.57	65.36	61.89	61.89	61.89	61.48	60.95	60.93	60.84	60.66	60.69	60.63	29
30	60.55	64.66	62.79	61.95	61.95	61.54	60.93	60.92	60.83	60.57	60.67	60.65	30
31	60.57		65.75	62.77		61.50		60.86		60.72	60.64		31

CREST STAGES

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-27-65	1010	66.47									
1-3-66	0750	69.42									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	6060	73.04	2-17-62	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue.											

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	807375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.51	54.31	59.32	60.49	56.83	55.67	55.78	55.19	54.92	54.59	54.71	54.71	1
2	55.54	54.29	59.42	61.64	56.82	55.71	55.72	55.24	55.02	54.57	54.84	54.74	2
3	55.60	54.54	59.34	61.96	56.59	55.65	55.63	55.15	55.03	54.72	54.91	54.76	3
4	55.50	54.43	59.46	61.46	56.53	55.48	55.59	55.24	55.00	54.76	54.93	54.75	4
5	55.27	54.39	59.52	60.38	56.48	55.35	55.55	55.25	55.09	54.79	54.80	54.76	5
6	55.07	54.44	59.49	59.51	56.42	55.31	55.48	55.22	55.18	54.77	54.76	54.75	6
7	54.93	54.51	59.30	58.95	56.31	55.28	55.45	55.18	55.19	54.70	54.81	54.66	7
8	54.92	54.51	57.69	58.68	56.68	55.32	55.58	55.18	55.19	54.72	54.79	54.49	8
9	54.90	54.52	56.71	58.58	56.72	55.29	55.67	55.29	55.21	54.76	54.75	54.62	9
10	54.90	54.54	56.56	58.44	56.91	55.17	55.72	55.27	55.17	54.72	54.78	54.69	10
11	54.76	54.54	56.49	58.14	56.84	55.06	55.84	55.52	54.97	54.79	54.88	54.71	11
12	54.58	54.62	56.40	57.82	56.56	55.11	55.97	55.59	54.89	54.83	54.92	54.74	12
13	54.56	54.69	56.45	57.58	56.28	55.12	55.99	55.65	55.05	54.77	54.86	54.74	13
14	54.52	54.91	56.62	57.39	56.09	55.06	55.89	55.49	54.98	54.80	54.88	54.79	14
15	54.52	55.11	56.46	57.21	55.97	55.05	55.78	55.40	54.96	54.65	54.94	54.78	15
16	54.51	55.32	56.31	57.08	55.91	55.07	55.72	55.45	54.87	54.62	54.87	54.77	16
17	54.58	55.85	56.18	56.95	55.83	55.17	55.62	55.36	54.79	54.67	54.76	54.75	17
18	54.53	56.11	56.08	56.87	55.77	55.27	55.39	55.29	54.76	54.71	54.62	54.75	18
19	54.50	56.42	55.96	56.74	55.71	55.18	55.27	55.32	54.78	54.80	54.59	54.71	19
20	54.54	56.48	55.83	56.63	55.66	55.11	55.34	55.26	54.76	54.74	54.70	54.66	20
21	54.48	56.50	55.80	56.55	55.65	55.20	55.22	55.21	54.75	54.72	54.68	54.51	21
22	54.47	56.60	55.83	56.49	55.55	55.36	55.27	55.02	54.76	54.75	54.67	54.55	22
23	54.44	56.89	55.81	56.40	55.50	55.50	55.28	54.94	54.70	54.73	54.70	54.55	23
24	54.57	57.32	55.75	56.30	55.48	55.60	55.30	54.93	54.70	54.58	54.72	54.64	24
25	54.58	58.40	55.77	56.23	55.53	55.59	55.32	54.98	54.72	54.49	54.77	54.70	25
26	54.44	59.04	55.81	56.14	55.57	55.62	55.34	55.12	54.75	54.44	54.87	54.69	26
27	54.31	59.37	55.87	56.02	55.62	55.63	55.41	55.03	54.81	54.53	54.87	54.62	27
28	54.32	59.33	55.89	55.91	55.64	55.70	55.30	55.04	54.80	54.46	54.78	54.59	28
29	54.38	58.89	56.07	55.86		55.76	55.18	55.07	54.76	54.41	54.72	54.58	29
30	54.31	59.01	56.77	55.91		55.76	55.15	55.05	54.64	54.51	54.70	54.46	30
31	54.32		58.26	56.11		55.78		54.95		54.58	NR		31

CREST STAGES

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-05-65	0800	59.53									
01-03-66	0800	62.01									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		5910	71.14	4-6-58	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles above the Merced River. During periods of high flow, some water bypasses station through Mud Slough. Maximum discharge of record is for period 1944 to date. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	605170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.16	5.49	12.46	12.65	5.75	5.62	5.33	5.61	5.94	5.98	5.89	5.90	1
2	5.77	5.48	12.55	7.97	5.69	5.56	5.41	5.61	5.97	5.37	5.80	5.51	2
3	5.52	5.30	12.78	6.38	5.69	5.54	5.46	5.95	6.00	5.39	5.77	5.43	3
4	5.42	5.51	12.74	6.04	5.67	5.47	5.60	5.88	6.08	5.76	5.76	5.33	4
5	5.38	5.55	12.69	5.89	5.67	5.40	5.67	5.96	6.16	5.21	5.77	5.33	5
6	5.36	5.56	11.73	5.83	5.68	5.40	5.86	5.89	6.07	5.74	5.81	5.30	6
7	5.35	5.55	7.06	5.81	5.76	5.38	5.98	6.06	6.05	5.73	5.02	5.27	7
8	5.33	5.54	6.14	5.77	5.71	5.37	6.01	6.08	6.03	5.74	5.83	5.27	8
9	5.35	5.55	5.88	5.75	5.69	5.37	5.89	6.03	5.93	5.92	5.76	5.27	9
10	5.39	5.54	5.80	5.75	5.68	5.50	5.89	5.95	5.95	5.94	5.67	5.28	10
11	5.39	5.53	5.77	5.73	5.67	5.58	5.99	6.06	5.95	5.78	5.72	5.28	11
12	5.39	5.54	6.00	5.72	5.63	5.56	6.00	6.07	5.99	6.01	5.75	5.26	12
13	5.37	5.59	5.86	5.72	5.62	5.51	5.79	6.03	6.00	6.02	5.85	5.30	13
14	5.37	5.70	5.76	5.71	5.61	5.46	6.04	5.99	6.02	5.38	5.87	5.33	14
15	5.39	5.81	5.68	5.68	5.59	5.45	5.88	6.03	5.99	5.78	5.89	5.33	15
16	5.40	5.56	5.66	5.66	5.59	5.54	5.87	6.02	6.09	5.96	5.82	5.30	16
17	5.41	5.62	5.65	5.66	5.58	5.63	5.86	6.00	6.14	5.72	5.79	5.31	17
18	5.42	5.66	5.64	5.66	5.60	5.71	5.83	6.00	6.14	5.72	5.02	5.32	18
19	5.42	5.69	5.64	5.66	5.58	5.57	5.77	5.96	6.11	5.59	5.62	5.33	19
20	5.43	5.64	5.64	5.65	5.55	5.62	5.81	5.99	6.11	5.78	5.03	5.32	20
21	5.43	5.59	5.64	5.64	5.57	5.60	6.00	5.92	6.11	5.31	5.83	5.31	21
22	5.42	5.58	5.63	5.64	5.56	5.59	6.09	5.91	6.03	5.32	5.83	5.28	22
23	5.43	6.04	5.62	5.63	5.54	5.55	6.04	5.86	6.04	5.66	5.83	5.32	23
24	5.41	6.57	5.61	5.63	5.53	5.44	6.11	5.88	6.20	5.78	5.52	5.32	24
25	5.41	6.24	5.64	5.63	5.55	5.46	5.99	5.98	5.98	5.78	5.81	5.35	25
26	5.41	6.00	5.70	5.64	5.56	5.47	6.10	6.16	5.91	5.77	5.00	5.34	26
27	5.43	5.81	5.65	5.63	5.57	5.40	6.05	6.09	5.86	5.75	5.00	5.34	27
28	5.44	10.85	5.51	5.63	5.55	5.35	6.11	6.05	5.92	5.34	5.02	5.35	28
29	5.44	12.56	6.11	5.64		5.31	5.82	5.98	6.11	5.72	5.05	5.34	29
30	5.48	12.56	10.96	5.85		5.31	5.79	5.95	6.15	5.74	5.84	5.34	30
31	5.51		12.59	5.99		5.30		5.96		5.73	5.89		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E — ESTIMATED	12-3-65	0510	12.81									
NR — NO RECORD	1-1-66	0000	12.69									
NF — NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NEL7 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		0.00	LOCAL

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and Lake McClure. Prior to November 1958, records available for a site 3.6 miles downstream. Altitude of gage is 221 feet, U. S. Geological Survey datum.

TABLE B-10 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1966	80159	PERCEE RIVER AT CRESSEY

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.42	11.19	11.26	11.44	11.1	11.19	9.73	11.26	10.95	10.34	10.4	10.25	1
2	11.42	11.17	11.44	11.47	11.06	11.10	9.8	11.27	10.49	10.34	10.4	10.30	2
3	11.88	11.17	11.75	11.48	11.05	11.19	9.75	11.1	10.40	10.28	10.43	10.33	3
4	11.64	11.20	11.74	11.61	11.46	11.17	9.77	11.06	11.34	11.5	11.45	11.29	4
5	11.49	11.21	11.62	11.26	11.04	11.13	9.83	11.09	11.30	11.30	11.17	11.2	5
6	11.43	11.22	11.44	11.19	11.09	11.1	9.82	11.04	10.99	10.31	11.10	11.17	6
7	11.43	11.24	11.98	11.08	11.07	11.10	9.78	11.27	10.51	10.4	11.1	11.17	7
8	11.39	11.25	11.17	11.09	11.07	11.09	9.9	11.33	10.46	10.38	11.05	11.18	8
9	11.34	11.26	11.52	11.04	11.03	11.07	9.94	11.02	11.05	10.31	11.19	11.04	9
10	11.36	11.26	11.22	11.07	11.04	11.07	10.13	11.01	10.43	11.06	11.21	11.09	10
11	11.33	11.26	11.04	11.09	11.00	11.07	10.29	11.08	10.47	10.33	11.01	11.00	11
12	11.30	11.28	11.10	11.71	11.08	11.05	10.35	11.09	11.39	11.42	11.13	11.09	12
13	11.32	11.33	11.46	11.67	11.09	11.12	10.49	11.04	10.40	10.47	11.06	11.09	13
14	11.33	11.49	11.12	11.65	11.08	11.13	10.40	11.05	10.38	11.47	11.05	11.06	14
15	11.35	11.57	11.06	11.62	11.29	11.10	10.43	11.03	10.38	11.05	11.08	11.06	15
16	11.32	11.03	11.06	11.69	11.27	11.09	11.00	11.06	11.20	10.33	11.03	11.09	16
17	11.30	11.75	11.78	11.07	11.05	11.09	11.00	11.07	11.24	11.01	11.02	11.00	17
18	11.30	11.59	11.74	11.01	11.04	11.00	11.07	11.09	11.09	11.02	11.08	11.04	18
19	11.28	11.03	11.09	11.00	11.04	11.11	11.03	11.02	11.01	11.00	11.07	11.09	19
20	11.27	11.00	11.66	11.04	11.04	11.21	11.09	11.00	11.49	11.37	11.08	11.09	20
21	11.28	11.08	11.68	11.08	11.01	11.17	11.02	11.06	11.48	11.34	11.07	11.11	21
22	11.30	11.06	11.62	11.00	11.01	11.08	11.03	11.05	11.44	11.34	11.03	11.13	22
23	11.28	11.68	11.59	11.08	11.21	11.11	11.02	11.03	11.47	11.33	11.00	11.09	23
24	11.28	11.05	11.06	11.00	11.19	11.1	11.08	11.29	11.43	11.08	11.08	11.09	24
25	11.27	11.49	11.09	11.04	11.16	11.10	11.06	11.04	11.41	11.33	11.08	11.01	25
26	11.25	11.07	11.61	11.04	11.18	11.00	11.03	11.05	11.03	11.00	11.02	11.02	26
27	11.24	11.41	11.73	11.02	11.17	11.05	11.04	11.22	11.27	11.11	11.00	11.09	27
28	11.24	11.71	11.66	11.01	11.18	11.04	11.22	11.09	11.00	11.00	11.04	11.02	28
29	11.22	11.87	11.92	11.01	11.02	11.02	11.00	11.02	11.02	11.00	11.02	11.08	29
30	11.18	11.39	11.20	11.08	11.08	11.04	11.07	11.02	11.02	11.00	11.11	11.03	30
31	11.19		11.75	11.00		11.03		11.07		11.10	11.12		31

CREST STAGES

E	NR	NF									
ESTIMATED	NO RECORD	NO FLOW									
DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-3-65	1610	11.84									
1-1-66	0200	11.48									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
								1962		86.24	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B05138	MERCED RIVER NEAR LIVINGSTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.48	.74	14.24	14.55									1
2	1.68	.73	14.19	12.87									2
3	1.65	.73	14.75	5.84									3
4	1.50	.76	15.09	4.07									4
5	1.40	.72	14.97	3.37									5
6	1.17	.69	14.77	2.97									6
7	1.10	.69	11.03	2.73									7
8	1.11	.68	5.50	2.55									8
9	1.06	.65	4.23	2.40									9
10	1.01	.66	3.66	2.29									10
11	.99	.67	3.27	2.19									11
12	.97	.68	3.03	2.10									12
13	.96	.81	3.22	2.02									13
14	.97	.91	3.01	1.96									14
15	1.03	1.04	2.72	1.91									15
16	1.00	1.12	2.55	1.85									16
17	.93	1.26	2.40	1.79									17
18	.88	1.31	2.29	1.75									18
19	.89	1.23	2.20	1.70									19
20	.88	1.16	2.12	1.67									20
21	.88	1.12	2.08	1.66									21
22	.87	1.11	2.05	1.62									22
23	.86	1.23	1.96	1.61									23
24	.85	2.88	1.93										24
25	.83	4.09	1.92										25
26	.84	3.37	1.92										26
27	.82	2.58	1.96										27
28	.81	2.27	1.98										28
29	.81	11.36	1.95										29
30	.79	14.15	5.51										30
31	.76		12.50										31

STATION DISCONTINUED AS OF

1-24-66

CREST STAGES

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-3-65	2130	15.11									
1-1-66	1640	14.60									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	DF RECDRD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERD ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 18	120 47 35	NW29 6S 11E	11100	31.44	2-12-38	MAR 22-SEP 24 OCT 25-FEB 44	JAN 51-JAN 60 APR 62-JAN 66	1962	DATE	79.5	USGS

Station located 4.5 miles west of Livingston and 9.5 miles upstream from mouth. Early discharge records, 1922-44, available in U. S. Geological Survey Water Supply Papers. Stage records from 1951-1960 were not published, available from Department of Water Resources, State of California. Station reactivated April 1, 1962, for stage only. Drainage area is 1,259 square miles. Station discontinued on January 24, 1966.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	49.90	49.01	57.82	57.68	51.13	49.83	49.56	49.19	48.83	48.47	NR	48.41	1
2	49.79	49.00	58.05	58.79	51.17	49.86	49.45	49.19	49.07	48.46	NR	48.46	2
3	50.00	49.08	58.09	57.62	50.92	49.84	49.41	49.06	48.99	48.49	NR	48.49E	3
4	50.03	49.14	58.36	55.86	50.79	49.75	49.33	48.99	48.88	48.58	NR	NR	4
5	49.90	49.16	58.47	54.65	50.71	49.67	49.25	49.04	48.91	48.56	48.27E	NR	5
6	49.81	49.18	58.46	53.71	50.69	49.63	49.14	49.04	49.09	48.54	48.25	NR	6
7	49.75	49.16	58.09	53.14	50.60	49.59	49.12	49.04	49.17	48.44	48.28	NR	7
8	49.72	49.12	54.98	52.81	50.89	49.60	49.20	49.04	49.20	48.39	48.26	NR	8
9	49.65	49.07	52.79	52.67	50.88	49.57	49.34	49.29	49.10	48.47	48.14	NR	9
10	49.54	49.01	52.17	52.55	50.88	49.49	49.53	49.40	49.07	48.48	48.17	NR	10
11	49.47	49.05	51.98	52.29	50.83	49.37	49.74	49.47	48.96	48.44	48.30	NR	11
12	49.33	49.11	51.73	52.01	50.65	49.32	49.85	49.50	48.82	NR	48.35	NR	12
13	49.29	49.22	51.58	51.79	50.44	49.39	49.86	49.65	48.90	NR	48.34	NR	13
14	49.27	49.45	51.65	51.62	50.32	49.46	49.87	49.57	48.77	NR	48.39	48.55E	14
15	49.29	49.67	51.37	51.46	50.22	49.38	49.72	49.44	48.68	NR	48.37	48.41	15
16	49.29	49.87	51.10	51.35	50.16	49.31	49.61	49.53	48.74	NR	48.39	48.34	16
17	49.21	50.32	50.88	51.21	50.10	49.36	49.49	49.39	48.70	NR	48.25	48.32	17
18	48.12	50.60	50.70	51.11	50.03	49.46	49.43	49.28	48.70	NR	48.17	48.38	18
19	49.04	50.85	50.58	51.01	49.99	49.43	49.33	49.33	48.64	NR	48.11	48.32	19
20	49.07	50.89	50.48	50.90	49.95	49.36	49.38	49.28	48.70	NR	48.18	48.37	20
21	49.19	50.86	50.43	50.82	49.96	49.46	49.35	49.20	48.62	NR	48.29	48.30	21
22	49.14	50.91	50.44	50.75	49.94	49.56	49.35	49.13	48.68	NR	48.29	48.33	22
23	49.11	51.07	50.45	50.67	49.89	49.56	49.27	49.14	48.59	NR	48.24	48.30	23
24	49.10	51.35	50.37	50.59	49.85	49.61	49.28	49.00	48.60	NR	48.30	48.35	24
25	49.12	52.71	50.38	50.52	49.84	49.56	49.32	48.98	48.67	NR	48.39	48.42	25
26	49.12	53.18	50.42	50.47	49.84	49.60	49.25	49.02	48.69	NR	48.42	48.47	26
27	49.09	53.24	50.48	50.40	49.83	49.52	49.28	48.98	48.80	NR	48.47	48.37	27
28	49.11	53.08	50.53	50.31	49.83	49.51	49.21	48.92	48.66	NR	48.40	48.39	28
29	49.11	54.04	50.65	50.27	49.87	49.59	49.09	48.99	48.58	48.18E	48.30	48.32	29
30	49.07	56.94	51.11	50.33	49.62	49.62	49.17	49.08	48.50	48.30E	48.31	48.22	30
31	49.00		54.91	50.48	49.64	49.64		49.02		NR	48.30		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-06-65	0600	58.49									
NR - NO RECORD	01-02-66	1800	58.94									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33000	18.50	3-7-38	APR 12-DATE		1912	1959	47.24 47.31 0.00	USCGS USCGS USCGS

Station located at bridge on Hills Ferry Road, 300 feet below the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California".

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39.26	38.25	47.21	46.62	40.50	39.67	39.06	38.66	38.43	38.02	37.98	38.06	1
2	39.25	38.22	47.92	48.64	40.75	39.68	38.96	38.69	38.52	38.03	37.93	38.03	2
3	39.33	38.26	48.13	48.37	40.55	39.49	38.93	38.63	38.49	38.08	37.89	38.12	3
4	39.32	38.47	48.43	46.58	40.38	39.31	38.89	38.49	38.35	38.25	37.94	38.18	4
5	39.25	38.43	48.69	45.19	40.32	39.21	38.86	38.54	38.30	38.10	37.99	38.17	5
6	39.16	38.44	48.80	44.00	40.29	39.12	38.77	38.55	38.48	38.15	38.02	38.19	6
7	39.05	38.43	48.73	43.25	40.17	39.06	38.74	38.48	38.61	37.99	38.01	38.08	7
8	39.05	38.39	46.74	42.80	40.32	39.04	38.76	38.44	38.70	38.05	38.02	37.99	8
9	38.96	38.37	43.60	42.57	40.43	39.03	38.87	38.75	38.70	38.02	37.78	37.94	9
10	38.87	38.30	42.27	42.41	40.44	38.93	39.09	38.96	38.62	38.07	37.85	38.07	10
11	38.86	38.30	41.83	42.17	40.41	38.81	39.48	38.96	38.50	38.07	37.89	38.12	11
12	38.76	38.34	41.55	41.82	40.29	38.77	39.48	38.94	38.36	38.03	37.90	38.13	12
13	38.67	38.46	41.32	41.57	40.05	38.88	39.40	39.05	38.40	37.96	37.92	38.09	13
14	38.68	38.72	41.32	41.38	39.91	38.97	39.42	39.06	38.31	38.00	38.02	38.05	14
15	38.72	38.90	41.12	41.22	39.79	38.95	39.37	38.98	38.18	37.98	38.03	38.06	15
16	38.61	39.14	40.84	41.10	39.69	38.77	39.20	39.01	38.16	38.05	38.00	37.95	16
17	38.47	39.56	40.57	40.92	39.63	38.71	39.03	38.95	38.15	38.05	37.88	37.96	17
18	38.41	39.83	40.37	40.81	39.55	38.84	38.94	38.82	38.13	38.12	37.81	37.92	18
19	38.39	40.11	40.22	40.73	39.50	38.83	38.86	38.90	38.12	38.03	37.79	37.91	19
20	38.33	40.21	40.09	40.59	39.44	38.86	38.86	38.80	38.17	38.11	37.83	37.92	20
21	38.30	40.18	40.02	40.48	39.43	38.84	38.90	38.73	38.17	38.04	37.92	37.93	21
22	38.35	40.20	40.02	40.39	39.46	39.01	38.95	38.73	38.24	37.98	37.98	37.90	22
23	38.39	40.35	40.02	40.31	39.42	39.01	38.83	38.79	38.14	37.91	37.88	37.88	23
24	38.42	40.62	39.96	40.21	39.39	39.07	38.81	38.54	38.13	38.06	37.95	37.88	24
25	38.45	41.52	39.96	40.11	39.36	39.05	38.85	38.50	38.27	37.98	37.94	37.97	25
26	38.40	42.35	39.98	40.08	39.36	39.07	38.75	38.54	38.32	37.87	38.04	38.06	26
27	38.33	42.61	40.04	40.01	39.35	39.07	38.80	38.52	38.39	37.83	38.07	37.98	27
28	38.30	42.57	40.10	39.91	39.66	39.07	38.82	38.46	38.36	37.82	38.18	37.91	28
29	38.25	42.79	40.20	39.87		39.10	38.63	38.56	38.18	37.82	38.03	37.86	29
30	38.23	45.40	40.56	39.91		39.12	38.64	38.61	38.07	37.76	37.94	37.78	30
31	38.16		43.01	40.01		39.15		38.58		37.87	37.94		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-6-65	1550	48.81									
NR - NO RECORD	1-2-66	2400	49.06									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LDNGITUDE	1/4 SEC. T. & R. M D B.A.M.	OF RECRD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 26 52	121 00 44	NW 8 6S 9E		61.9	4-7-58	OCT 65-DATE	41-SEP 65		1959	1959	0.00	USED
									1959		0.00	USGS
											3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.16	31.79	40.27	39.19	34.03	33.37	32.41	31.85	31.27	32.25	32.96	32.98	1
2	33.19	31.83	40.45	41.54	34.44	33.36	32.23	31.92	31.27	32.23	32.84	32.95	2
3	33.21	31.90	41.91	42.48	34.30	33.22	32.30	31.91	32.18	32.47	32.70	33.11	3
4	33.23	32.11	42.19	41.32	34.11	33.03	32.24	31.87	32.74	32.73	32.69	33.22	4
5	33.21	32.08	42.51	39.64	34.06	32.98	32.23	31.92	32.67	32.62	32.87	33.20	5
6	33.07	32.13	42.69	38.22	34.09	32.85	32.07	31.88	32.75	32.55	32.86	33.20	6
7	32.97	32.11	42.74	37.27	34.00	32.76	31.94	31.76	32.90	32.23	32.92	33.02	7
8	32.91	32.04	41.75	36.72	34.01	32.60	32.02	31.80	32.98	32.27	32.91	32.99	8
9	32.82	32.02	38.70	36.40	34.17	32.61	32.14	32.16	33.12	32.23	32.61	32.94	9
10	32.76	31.93	36.60	36.21	34.15	32.56	32.49	32.58	33.03	32.34	32.36	33.11	10
11	32.73	31.98	35.85	35.95	34.16	32.46	32.89	32.53	32.82	32.43	32.37	33.19	11
12	32.69	32.00	35.53	35.56	34.04	32.63	32.92	32.39	32.70	32.32	32.58	33.27	12
13	32.61	32.13	35.20	35.28	33.84	32.76	32.76	32.44	32.64	32.15	32.44	33.19	13
14	32.60	32.38	35.09	35.06	33.66	32.81	32.74	32.45	32.52	32.19	32.71	33.11	14
15	32.68	32.53	34.92	34.91	33.57	32.70	32.58	32.50	32.41	32.15	32.89	33.23	15
16	32.55	32.76	34.67	34.75	33.48	32.52	32.35	32.53	32.27	32.10	32.81	33.20	16
17	32.27	33.25	34.43	34.60	33.41	32.33	32.17	32.41	32.26	32.23	32.77	33.18	17
18	32.05	33.51	34.19	34.48	33.30	32.45	32.02	32.29	32.40	32.32	32.67	33.21	18
19	31.97	33.71	34.02	34.38	33.29	32.50	31.78	32.21	32.45	32.07	32.52	33.26	19
20	31.93	33.83	33.89	34.25	33.23	32.49	31.70	32.14	32.37	31.96	32.55	32.54	20
21	31.94	33.81	33.77	34.14	33.16	32.41	31.71	32.13	32.35	32.02	32.85	31.81	21
22	31.93	33.82	33.72	34.04	33.15	32.36	31.79	32.19	32.54	31.89	33.05	31.63	22
23	31.90	34.00	33.69	33.93	33.16	32.44	31.77	32.16	32.61	31.80	32.85	31.63	23
24	31.84	34.28	33.62	33.82	33.13	32.41	31.78	31.92	32.47	31.81	32.95	31.62	24
25	31.84	34.91	33.63	33.74	33.09	32.37	31.81	31.72	32.69	31.79	32.95	31.71	25
26	31.84	35.91	33.60	33.71	33.09	32.38	31.79	31.63	32.88	31.59	33.06	31.86	26
27	31.83	36.26	33.61	33.65	33.05	32.43	31.78	31.60	32.75	31.42	33.00	31.91	27
28	31.85	36.33	33.66	33.56	33.28	32.56	31.86	31.38	32.74	32.19	33.16	31.66	28
29	31.85	36.31	33.80	33.55		32.32	31.73	31.44	32.50	32.90	33.13	31.62	29
30	31.84	38.30	34.04	33.60		32.27	31.62	31.64	32.31	32.74	32.92	31.56	30
31	31.79		35.76	33.63		32.42		31.56		32.95	32.91		31

CREST STAGES

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-6-65	2400	42.75									
1-3-66	0910	42.61									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-DATE	1938	1959	0.00	USED
								1959		0.00	USCS
								1959		3.53	USED

Station located at Patterson-Turlock highway bridge, 3.1 miles northeast of Patterson.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B07080	SAN JOAQUIN RIVER AT GRAYSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	25.15	23.77	31.45	30.58	26.22	25.47							1
2	25.15	23.75	32.83	32.95	26.61	25.48							2
3	25.20	23.77	33.63	34.29	26.54	25.43							3
4	25.23	23.87	34.02	33.98	26.34	25.24							4
5	25.21	23.90	34.33	32.42	26.23	25.18							5
6	25.09	23.95	34.57	30.74	26.30	25.07							6
7	25.03	23.97	34.70	29.62	26.51	24.93							7
8	24.92	23.87	34.46	28.98	26.42	24.75							8
9	24.84	23.84	32.35	28.62	26.42	24.71							9
10	24.83	23.77	29.78	28.38	26.35	24.65							10
11	24.82	23.72	28.67	28.14	26.36	24.57							11
12	24.84	23.78	28.30	27.89	26.27	24.66							12
13	24.85	23.92	27.97	27.67	26.07	24.87							13
14	24.90	24.17	27.72	27.46	25.87	24.93							14
15	25.03	24.36	27.64	27.28	25.72	24.83							15
16	25.07	24.52	27.43	27.01	25.63								16
17	24.73	24.99	27.18	26.82	25.57								17
18	24.42	25.30	26.95	26.68	25.48								18
19	24.27	25.52	26.75	26.58	25.43								19
20	24.11	25.70	26.58	26.47	25.40								20
21	23.94	25.88	26.48	26.33	25.33								21
22	23.81	25.96	26.50	26.23	25.32								22
23	23.72	26.16	26.49	26.15	25.32								23
24	23.65	26.45	26.38	26.03	25.20								24
25	23.61	27.00	26.08	25.93	25.22								25
26	23.62	28.29	25.92	25.89	25.22								26
27	23.61	28.43	25.87	25.87	25.18								27
28	23.61	28.65	25.93	25.77	25.29								28
29	23.72	28.42	26.08	25.73									29
30	23.84	29.33	26.27	25.80									30
31	23.81		27.56	25.83									31

CREST STAGES

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-7-65	0900	34.70									
1-3-66	0700	34.73									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 33 47	121 09 06	NW25 4S 7E	23900	45.15	3-8-41	JUL 28-MAR 66		1960	1959	0.00	USED
								1960		0.00	USCGS
										3.81	USED

Station located at Laird Slough Bridge, 5 miles above the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in figures shown. Records furnished by City of San Francisco. Station discontinued on March 16, 1966.

TABLE B-10 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1966	B07070	SAN JOAQUIN RIVER AT WEST STANISLAUS I. D. INTAKE

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	22.30	22.54	27.83	27.72	23.96	22.53	19.38	18.88					1
2	22.34	22.14	28.82	29.19	23.77	22.85	18.82	19.01					2
3	22.43	21.89	29.42	30.12	23.62	23.05	18.87	18.79					3
4	22.47	21.90	29.77	30.00	23.44	22.96	19.20	18.93					4
5	22.44	21.90	30.11	28.86	23.28	22.88	18.65						5
6	22.49	21.90	30.31	27.29	23.34	22.64	18.85						6
7	22.78	21.77	30.43	25.91	24.72	22.06	18.00						7
8	22.75	21.63	30.39	25.19	24.34	21.83	18.26						8
9	22.72	21.61	29.11	24.79	23.77	21.78	19.03						9
10	22.54	21.73	27.20	24.47	23.54	21.80	19.67						10
11	22.65	21.72	26.22	24.32	23.51	21.64	19.95						11
12	22.91	21.74	25.91	24.68	23.44	21.11	20.14						12
13	23.29	21.84	25.68	24.78	23.21	21.04	19.90						13
14	23.56	22.05	25.50	24.66	22.99	20.94	19.70						14
15	23.77	22.05	25.49	24.44	22.89	20.83	19.64						15
16	23.99	22.09	25.38	23.80	22.89	20.62	19.03						16
17	23.73	22.58	25.25	23.49	22.82	20.44	17.73						17
18	23.51	22.81	25.09	23.38	22.74	20.41	17.86						18
19	23.39	22.90	24.91	23.40	22.69	20.47	17.62						19
20	23.08	23.08	24.72	23.30	22.60	20.00	17.55						20
21	22.49	23.87	24.77	23.19	22.47	19.83	17.97						21
22	21.47	24.12	24.87	22.97	22.54	19.60	18.66						22
23	21.17	24.33	24.85	22.76	22.53	19.64	18.84						23
24	21.06	24.76	24.64	22.57	22.45	19.58	19.03						24
25	20.82	25.39	23.39	22.51	22.48	19.45	18.98						25
26	20.79	25.86	22.52	22.60	22.50	19.35	18.72						26
27	20.86	25.97	22.09	22.64	22.42	19.29	18.44						27
28	20.93	26.08	22.33	22.56	22.36	19.51	18.82						28
29	22.15	25.99	22.79	22.53		19.36	18.96						29
30	22.61	26.44	23.08	22.67		19.01	18.76						30
31	22.62		25.55	23.20		19.03							31

STATION DISCONTINUED
MAY 5, 1966

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-8-65	0530	30.51									
NR - NO RECORD	1-3-66	2210	30.29									
NF - NO FLOW												

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	SE10 4S 7E	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
				CFS	GAGE HT	DATE			FROM	TO		
37 36 07	121 10 51							DEC 50-MAY 66	1959	1959	0.00	USED
									1959		0.00	USCGS
									1959		3.67	USED

Station located at intake gates for West Stanislaus Irrigation District Canal, 2.6 miles north of Grayson.
Station discontinued on May 5, 1966.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	70.36	70.72	72.07	72.25	70.63	71.13	67.52	67.31	67.27	67.23	67.08	67.15	1
2	70.33	70.59	72.08	72.00	70.66	71.16	67.36	67.35	67.27	67.33	67.11	67.31	2
3	70.32	70.60	72.10	71.57	70.62	71.19	67.35	67.31	67.30	67.25	67.10	67.21	3
4	70.26	70.49	72.12	71.02	70.60	71.18	67.35	67.29	67.27	67.28	67.10	67.09	4
5	70.64	70.41	72.09	70.31	70.49	70.61	67.33	67.29	67.27	67.25	67.08	67.06	5
6	70.86	70.28	72.06	70.27	70.44	70.22	67.33	67.29	67.26	67.26	67.09	67.09	6
7	70.86	70.23	72.15	70.29	70.75	70.27	67.35	67.29	67.27	67.32	67.07	67.13	7
8	70.64	70.44	72.14	70.18	70.71	70.26	67.34	67.30	67.28	67.31	67.07	67.09	8
9	70.63	70.48	72.15	70.14	70.71	70.32	67.35	67.29	67.27	67.31	67.10	67.09	9
10	70.90	70.49	72.15	70.49	70.81	69.63	67.35	67.29	67.24	67.31	67.10	67.29	10
11	71.20	70.38	72.17	71.35	70.76	69.19	67.34	67.29	67.24	67.31	67.09	67.10	11
12	71.65	70.53	72.17	71.35	70.68	69.17	67.35	67.37	67.20	67.32	67.09	67.10	12
13	71.75	70.41	72.18	71.34	70.47	69.18	67.34	67.31	67.19	67.33	67.20	67.10	13
14	71.83	70.28	72.23	70.96	70.74	69.17	67.33	67.27	67.19	67.33	67.12	67.10	14
15	71.91	70.40	72.28	70.37	70.70	69.14	67.32	67.27	67.22	67.34	67.09	67.10	15
16	71.91	70.63	72.11	70.32	70.66	69.14	67.33	67.28	67.20	67.33	67.12	67.11	16
17	71.85	70.41	72.18	70.46	70.64	69.18	67.32	67.32	67.20	67.35	67.09	67.11	17
18	71.76	70.46	72.10	70.49	70.63	68.49	67.34	67.32	67.17	67.38	67.11	67.11	18
19	71.46	70.81	71.96	70.43	70.50	67.39	67.40	67.31	67.17	67.32	67.11	67.13	19
20	70.30	71.79	72.28	70.43	70.45	67.35	67.32	67.30	67.17	67.33	67.11	67.13	20
21	69.61	71.80	72.26	70.13	70.66	67.52	67.33	67.28	67.17	67.04	67.11	67.14	21
22	69.60	71.80	72.22	69.93	70.44	67.59	67.33	67.28	67.17	67.35	67.11	67.14	22
23	69.41	72.02	71.85	69.90	70.51	67.56	67.34	67.28	67.22	67.05	67.12	67.14	23
24	69.40	72.11	70.06	70.19	70.63	67.52	67.32	67.27	67.33	67.26	67.11	67.14	24
25	69.65	72.02	69.24	70.26	70.63	67.53	67.31	67.28	67.27	67.04	67.11	67.14	25
26	69.58	71.99	69.34	70.32	70.45	67.37	67.31	67.28	67.25	67.26	67.13	67.13	26
27	70.19	72.06	70.16	70.30	70.35	67.35	67.30	67.28	67.26	67.26	67.12	67.15	27
28	71.60	72.05	70.10	70.31	70.61	67.52	67.30	67.27	67.26	67.07	67.10	67.20	28
29	71.48	72.05	70.02	70.28	70.28	67.53	67.29	67.26	67.25	67.06	67.12	67.36	29
30	71.42	72.08	71.00	70.31	70.31	67.57	67.29	67.25	67.22	67.37	67.16	67.21	30
31	71.43		72.30	70.59		67.56		67.26		67.37	67.16		31

CREST STAGES

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
10-28-65	1920	72.18									
11-23-65	1950	72.43									
12-30-65	1450	72.34									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E	48200	88.0	12-8-50	OCT 36-SEP 60		1937		0.00	USGS
						OCT 61-DATE					

Station located at highway bridge, immediately north of La Grange. Flow regulated by reservoirs and powerplants. Drainage area is 1,540 square miles. In order to machine process this station the recorder datum was changed. To obtain true elevations add 100 feet to all of the above gage heights.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B04165	TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.90	11.40	12.77	12.84	11.15								1
2	10.90	11.29	12.77	12.72	11.18								2
3	10.88	11.25	12.78	12.22	11.16								3
4	10.84	11.20	12.80	11.73	11.14								4
5	11.04	11.18	12.76	11.09	11.08								5
6	11.35	11.07	12.73	10.96	11.09								6
7	11.35	11.00	12.82	10.93	11.14								7
8	11.28	11.02	12.82	10.92	11.25								8
9	11.13	11.22	12.82	10.83	11.19								9
10	11.36	11.25	12.83	10.87	11.27								10
11	11.59	11.17	12.83	11.85	11.27								11
12	12.06	11.18	12.83	11.90	11.16								12
13	12.25	11.22	12.83	11.91	11.08								13
14	12.30	11.17	12.90	11.71	11.10								14
15	12.45	11.09	12.92	11.07	11.18								15
16	12.43	11.39	12.96	11.00	11.16								16
17	12.40	11.29	12.87	11.01	11.11								17
18	12.37	11.26	12.77	11.10									18
19	12.03	11.40	12.66	11.09									19
20	11.43	12.43	12.89	11.06									20
21	10.47	12.45	12.92	10.82									21
22	10.43	12.43	12.88	10.70									22
23	10.36	12.68	12.68	10.58									23
24	10.25	12.86	11.11	10.64									24
25	10.32	12.77	10.43	10.80									25
26	10.41	12.68	10.10	10.92									26
27	10.50	12.74	10.58	10.88									27
28	12.07	12.73	10.85	10.88									28
29	12.08	12.74	10.74	10.87									29
30	11.99	12.77	11.53	10.95									30
31	11.98		12.89	11.01									31

CREST STAGES

E	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
	11-24-65	0130	13.08									
	12-16-65	1450	12.99									
	12-31-65	0620	12.90									

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
37 38 08	120 37 03	NW35 3S 12E	49800	28.2	12-8-50	JUL 28-OCT 36		1930	1940	106.20	USCGS
						JAN 37-FEB 38				0.00	USCGS
						JUN 38-FEB 66					

Station located at highway bridge, 7.5 miles east of Waterford. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 100 feet to all of the above gage heights. Station discontinued on February 18, 1966.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.86	73.37	74.57	74.72	73.18	73.33	70.53	70.25	70.18	70.11	70.12	70.12	1
2	72.86	73.20	74.57	74.66	73.22	73.70	70.46	70.24	70.17	70.10	70.07	70.12	2
3	72.84	73.17	74.57	74.20	73.19	73.73	70.32	70.21	70.22	70.11	70.05	70.12	3
4	72.79	73.09	74.59	73.75	73.14	73.71	70.28	70.22	70.19	70.10	70.06	70.17	4
5	72.94	73.08	74.58	73.12	73.11	73.51	70.26	70.21	70.18	70.10	70.08	70.18	5
6	73.29	73.01	74.56	72.93	73.08	72.88	70.23	70.21	70.18	70.11	70.11	70.15	6
7	73.28	72.91	74.64	72.88	73.09	72.85	70.23	70.23	70.17	70.10	70.08	70.12	7
8	73.26	72.89	74.63	72.89	73.28	72.86	70.25	70.22	70.18	70.11	70.08	70.13	8
9	73.02	73.10	74.64	72.78	73.22	72.86	70.29	70.24	70.16	70.10	70.09	70.16	9
10	73.26	73.15	74.64	72.74	73.29	72.85	70.31	70.24	70.18	70.10	70.08	70.18	10
11	73.50	73.09	74.66	73.68	73.32	71.99	70.31	70.26	70.15	70.11	70.07	70.17	11
12	73.96	73.05	74.67	73.85	73.17	71.91	70.29	70.26	70.17	70.08	70.08	70.20	12
13	74.13	73.16	74.68	73.85	73.11	71.88	70.29	70.23	70.16	70.09	70.09	70.19	13
14	74.17	73.11	74.72	73.75	73.07	71.88	70.28	70.24	70.15	70.08	70.11	70.18	14
15	74.36	72.96	74.76	73.05	73.20	71.85	70.28	70.21	70.14	70.07	70.11	70.19	15
16	74.32	73.21	74.78	72.93	73.19	71.84	70.27	70.19	70.15	70.06	70.10	70.20	16
17	74.32	73.23	74.77	72.93	73.13	71.85	70.26	70.18	70.16	70.06	70.08	70.18	17
18	74.27	73.15	74.66	73.04	73.12	71.83	70.26	70.17	70.13	70.04	70.07	70.18	18
19	74.00	73.21	74.53	73.04	73.06	70.90	70.28	70.20	70.14	70.05	70.09	70.20	19
20	73.59	74.23	74.65	73.01	72.96	70.52	70.30	70.22	70.13	70.04	70.11	70.19	20
21	72.39	74.29	74.75	72.83	73.03	70.42	70.27	70.22	70.14	70.06	70.11	70.17	21
22	72.35	74.25	74.71	72.68	73.04	70.50	70.26	70.22	70.15	70.07	70.11	70.18	22
23	72.33	74.49	74.65	72.54	73.00	70.56	70.26	70.22	70.12	70.07	70.11	70.18	23
24	72.16	74.65	73.17	72.59	73.08	70.53	70.26	70.19	70.12	70.05	70.10	70.17	24
25	72.13	74.63	72.48	72.77	73.12	70.51	70.25	70.18	70.11	70.07	70.08	70.16	25
26	72.35	74.49	71.99	72.92	73.09	70.49	70.26	70.18	70.13	70.09	70.10	70.18	26
27	72.28	74.55	72.28	72.88	72.97	70.39	70.25	70.21	70.13	70.08	70.11	70.17	27
28	73.80	74.55	72.81	72.86	73.00	70.36	70.25	70.20	70.09	70.08	70.11	70.18	28
29	74.01	74.54	72.69	72.87		70.46	70.25	70.19	70.11	70.10	70.12	70.18	29
30	73.93	74.54	73.28	72.94		70.51	70.24	70.19	70.12	70.11	70.14	70.16	30
31	73.88		74.75	72.97		70.54		70.18		70.12	70.13		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	11-24-65	0710	74.82									
NR - NO RECORD	12-17-65	0000	74.82									
	12-31-65	0800	74.78									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36		1932		0.00	USCGS
						JAN 37-MAR 37					
						JUL 37-FEB 38					
						JUL 38-DEC 38					
						MAR 39-DATE					

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Altitude of gage is approximately 80 feet, U. S. Coast and Geodetic Survey datum. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR		STATION NO.		STATION NAME									
1966		80413U		URY CREEK NEAR MODESTO									
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	69.28	67.97	68.33	72.57	71.85	67.77	68.70	68.39	68.17	67.10	68.09	67.85	1
2	69.17	67.98	68.26	70.73	69.67	67.79	68.86	68.32	67.98	67.36	67.70	67.98	2
3	69.17	67.93	68.12	69.48	69.28	67.77	68.89	68.24	68.03	67.74	67.76	68.00	3
4	69.33	68.03	68.00	69.01	68.78	67.76	68.86	68.27	68.16	67.35	68.01	68.11	4
5	69.62	67.98	67.93	68.60	68.55	67.73	68.76	68.16	68.13	67.79	67.96	68.13	5
6	69.91	67.95	67.88	68.92	73.09	67.73	68.55	68.16	68.22	67.71	67.74	68.04	6
7	69.90	67.86	67.84	68.91	76.44	67.68	68.52	68.27	68.24	67.84	67.53	68.11	7
8	70.09	67.83	67.82	68.63	71.00	67.64	68.50	68.11	68.27	67.70	68.04	68.11	8
9	70.11	67.82	67.80	68.45	69.58	67.62	68.46	68.21	68.19	67.77	68.01	67.93	9
10	69.74	67.81	67.80	68.33	69.04	67.60	68.75	68.55	68.11	67.36	68.04	67.87	10
11	69.62	67.82	67.84	68.26	68.77	67.59	68.85	68.59	68.10	67.82	68.00	67.90	11
12	69.49	67.83	67.89	68.23	68.63	67.61	68.82	68.39	68.15	67.79	67.95	68.04	12
13	69.35	67.83	67.84	68.17	68.51	67.60	68.69	68.39	68.12	67.96	67.83	68.16	13
14	69.29	68.17	68.12	68.13	68.36	67.62	68.45	68.42	68.08	68.12	67.04	68.21	14
15	69.98	68.39	68.38	68.08	68.27	67.60	68.07	68.27	68.00	68.07	67.90	68.30	15
16	69.57	68.13	68.19	68.74	68.18	67.58	68.03	68.20	68.04	68.07	67.68	68.36	16
17	69.17	69.20	68.03	68.01	68.10	67.59	68.16	68.09	68.00	68.11	67.91	68.24	17
18	68.88	69.50	67.93	68.00	68.04	67.57	68.42	68.14	67.90	68.10	67.93	68.13	18
19	68.76	69.38	67.87	67.96	67.97	67.59	68.42	68.12	67.75	68.03	67.86	68.26	19
20	68.69	68.88	67.84	67.96	67.96	67.60	68.30	68.09	67.71	68.30	67.61	68.31	20
21	68.80	68.81	67.81	67.93	67.93	67.90	68.24	68.09	67.75	68.00	67.79	68.35	21
22	68.73	68.52	67.74	67.92	67.92	67.88	68.34	68.13	67.61	68.05	67.93	68.14	22
23	68.90	69.04	67.77	67.90	67.93	67.86	68.32	68.10	67.77	68.03	67.97	68.27	23
24	68.63	71.62	67.77	67.89	67.85	68.17	68.37	68.02	67.75	67.77	67.98	68.23	24
25	68.30	71.91	67.78	67.90	67.80	68.24	68.25	68.00	67.78	67.73	67.84	68.32	25
26	68.09	70.74	67.77	67.90	67.79	68.46	68.41	68.01	67.77	67.98	67.92	68.30	26
27	68.04	70.05	67.77	67.90	67.78	68.87	68.36	68.03	67.80	67.39	67.91	68.36	27
28	68.01	69.32	68.22	67.92	67.76	68.61	68.42	68.07	67.78	67.94	68.06	68.30	28
29	68.00	68.79	68.74	67.92	68.77	68.42	68.42	68.08	67.74	68.11	68.26	68.39	29
30	67.97	68.52	76.32	68.83	68.57	68.37	68.12	67.72	67.79	68.14	68.14	68.44	30
31	67.94		76.40	75.20		68.58		68.15		68.11	67.73		31

CREST STAGES

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-31-65	1920	81.22									
1-31-66	1600	75.58									
2-6-66	2310	79.78									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941	0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. Station is operated under a cooperative agreement between the Department of Water Resources and the Modesto Irrigation District. Drainage area is 192.3 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.44	42.86	43.85	45.05	42.91	42.50	41.41	41.26	41.20	41.23	41.14	41.14	1
2	42.43	42.59	43.86	44.65	42.63	42.78	41.42	41.27	41.18	41.22	41.13	41.14	2
3	42.43	42.55	43.85	43.97	42.62	42.84	41.40	41.23	41.19	41.19	41.12	41.16	3
4	42.41	42.52	43.88	43.27	42.57	42.83	41.36	41.23	41.22	41.20	41.13	41.15	4
5	42.42	42.50	43.89	42.77	42.54	42.82	41.33	41.22	41.22	41.17	41.13	41.17	5
6	42.61	42.46	43.84	42.47	42.97	42.47	41.30	41.21	41.22	41.17	41.13	41.18	6
7	42.70	42.39	43.88	42.44	44.21	42.35	41.28	41.23	41.22	41.17	41.14	41.15	7
8	42.71	42.36	43.94	42.41	42.84	42.36	41.30	41.23	41.21	41.14	41.16	41.16	8
9	42.61	42.44	43.94	42.35	42.65	42.35	41.32	41.24	41.19	41.13	41.13	41.16	9
10	42.61	42.48	43.96	42.33	42.60	42.38	41.43	41.24	41.19	41.14	41.13	41.17	10
11	42.76	42.49	43.99	42.56	42.62	42.16	41.40	41.27	41.19	41.15	41.13	41.17	11
12	42.98	42.44	44.02	42.94	42.57	41.93	41.37	41.25	41.18	41.13	41.13	41.17	12
13	43.34	42.53	44.00	42.97	42.58	41.90	41.36	41.15	41.19	41.13	41.11	41.18	13
14	43.50	42.50	44.06	42.98	42.44	41.89	41.30	41.20	41.18	41.15	41.13	41.18	14
15	43.80	42.44	44.13	42.66	42.53	41.88	41.26	41.21	41.18	41.17	41.14	41.19	15
16	43.85	42.51	44.17	42.43	42.52	41.86	41.27	41.20	41.17	41.14	41.11	41.20	16
17	43.68	42.65	44.20	42.39	42.49	41.86	41.28	41.18	41.17	41.15	41.12	41.21	17
18	43.60	42.58	44.05	42.44	42.49	41.89	41.30	41.20	41.15	41.14	41.14	41.20	18
19	43.47	42.57	43.91	42.46	42.48	41.71	41.32	41.19	41.16	41.12	41.12	41.22	19
20	43.10	42.90	43.76	42.44	42.43	41.47	41.31	41.19	41.17	41.11	41.17	41.23	20
21	42.42	43.40	44.13	42.41	42.41	41.38	41.30	41.20	41.12	41.13	41.13	41.21	21
22	42.18	43.40	44.12	42.30	42.48	41.38	41.29	41.20	41.14	41.12	41.13	41.18	22
23	42.15	43.65	44.08	42.22	42.41	41.39	41.27	41.21	41.15	41.12	41.14	41.19	23
24	42.06	44.24	43.28	42.20	42.44	41.39	41.28	41.24	41.17	41.12	41.15	41.20	24
25	42.02	44.51	42.35	42.29	42.50	41.39	41.26	41.33	41.18	41.11	41.15	41.20	25
26	42.10	44.17	42.01	42.35	42.50	41.41	41.28	41.20	41.19	41.12	41.14	41.21	26
27	42.07	44.01	41.98	42.36	42.42	41.42	41.25	41.19	41.19	41.11	41.13	41.23	27
28	42.41	43.93	42.31	42.34	42.39	41.37	41.24	41.20	41.17	41.11	41.13	41.23	28
29	43.02	43.84	42.35	42.34		41.37	41.27	41.21	41.17	41.11	41.19	41.26	29
30	43.01	43.84	43.30	42.39		41.39	41.22	41.21	41.16	41.13	41.18	41.26	30
31	42.95		45.55	43.18		41.40		41.20		41.20	41.14		31

CREST STAGES

E	NR	NF
12-31-65 1200	02-07-66 0400	45.77 44.94

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 94	1940		0.00	USCGS

Station located at the U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published by the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter.

TABLE B-10 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1966	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	27.33	28.43	30.20	31.23	29.67	27.13	24.08	23.51	23.32	23.14	23.12	23.15	1
2	27.32	27.76	30.64	31.40	27.88	27.72	24.06	23.55	23.34	23.31	22.97	23.14	2
3	27.38	27.53	30.95	31.54	27.70	28.02	24.13	23.46	23.32	23.16	22.97	23.20	3
4	27.34	27.47	31.18	31.09	27.58	27.67	23.99	23.46	23.34	23.20	23.11	23.24	4
5	27.34	27.40	31.40	29.94	27.46	28.08	23.92	23.49	23.37	23.13	23.12	23.20	5
6	27.63	27.36	31.54	28.50	27.58	27.58	23.87	23.53	23.32	23.07	23.10	23.13	6
7	28.02	27.17	31.62	27.81	29.93	26.91	23.79	23.54	23.40	23.03	23.09	23.13	7
8	28.04	27.01	31.68	27.53	28.67	26.82	23.81	23.56	23.34	23.12	23.11	23.08	8
9	28.06	27.07	31.11	27.37	27.96	26.82	23.80	23.57	23.29	23.11	23.13	23.10	9
10	27.85	27.26	30.26	27.20	27.73	26.86	24.09	23.62	23.26	23.15	23.10	23.14	10
11	28.07	27.34	29.99	27.32	27.72	26.64	24.04	23.49	23.24	23.11	23.15	23.13	11
12	28.40	27.27	30.00	28.42	27.66	25.85	23.98	23.73	23.26	23.05	23.10	23.11	12
13	28.91	27.35	29.92	28.58	27.50	25.61	23.90	23.39	23.23	23.06	23.11	23.13	13
14	29.22	27.43	29.90	28.60	27.30	25.53	23.85	23.43	23.25	23.09	23.08	23.11	14
15	29.44	27.27	30.01	28.69	27.39	25.45	23.76	23.48	23.17	23.24	23.06	23.23	15
16	29.70	27.23	30.04	27.43	27.44	25.38	23.70	23.47	23.17	23.21	22.89	23.25	16
17	29.47	27.62	30.08	27.23	27.41	25.34	23.68	23.40	23.17	23.17	22.95	23.25	17
18	29.40	27.63	29.93	27.24	27.35	25.35	23.74	23.40	23.18	23.13	22.97	23.22	18
19	29.30	27.57	29.78	27.32	27.30	25.30	23.75	23.36	23.18	23.12	22.99	23.28	19
20	28.84	27.72	29.61	27.28	27.18	24.59	23.76	23.41	23.17	23.06	23.07	23.30	20
21	27.98	28.90	29.85	27.22	27.07	24.27	23.72	23.42	23.17	22.97	23.05	23.29	21
22	26.77	29.11	29.97	26.91	27.20	24.19	23.71	23.40	23.10	23.01	22.99	23.20	22
23	26.51	29.27	29.91	26.69	27.14	24.15	23.68	23.40	23.12	23.00	22.99	23.19	23
24	26.33	29.72	29.56	26.54	27.15	24.16	23.67	23.40	23.15	23.09	23.01	23.25	24
25	26.10	30.28	27.66	26.65	27.24	24.12	23.67	23.62	23.12	23.07	23.04	23.21	25
26	26.11	30.19	26.55	26.81	27.28	24.17	23.66	23.39	23.15	23.05	23.04	23.14	26
27	26.20	29.94	26.06	26.93	27.14	24.10	23.58	23.33	23.18	23.00	23.08	23.18	27
28	26.50	29.91	26.35	26.90	26.99	24.13	23.56	23.36	23.17	22.98	23.07	23.22	28
29	28.22	29.81	27.04	26.91	23.99	23.61	23.38	23.38	23.14	22.96	23.13	23.31	29
30	28.52	29.85	27.49	27.09	24.04	23.57	23.36	23.36	23.12	23.06	23.18	23.55	30
31	28.47		30.77	27.50	24.04		23.32			23.18	23.14		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-8-65	0600	31.68									
NR - NO RECORD	1-3-66	0600	31.83									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12-9-50	30-DATE			1959	0.00	USED
									1960	0.00	USCGS
									1960	3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Records furnished by City of San Francisco through February. The Department of Water Resources began operating this station in April.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	80704L	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.69	17.84	22.11	22.53	19.66	17.60	15.35	14.78	13.98	13.42	13.32	13.88	1
2	17.77	17.56	22.98	23.65	19.61	17.95	14.95	14.39	13.86	13.35	13.79	13.86	2
3	17.85	17.31	23.52	24.42	19.77	18.17	14.41	14.25	13.82	13.34	13.87	13.90	3
4	17.88	17.27	23.96	24.49	19.22	18.12	14.41	14.19	13.88	13.33	13.44	14.12	4
5	17.81	17.26	24.35	23.62	19.09	18.06	14.68	14.26	13.94	13.34	13.36	14.16	5
6	17.79	17.26	24.58	22.36	19.13	17.91	14.63	14.38	14.05	13.58	13.39	14.06	6
7	18.06	17.18	24.58	21.29	20.22	17.39	14.51	14.36	14.08	13.53	13.42	14.07	7
8	18.08	17.03	24.55	20.69	20.20	17.17	14.50	14.46	14.1	13.55	13.45	13.93	8
9	18.06	17.05	23.74	20.34	19.44	17.12	14.66	14.58	14.05	13.52	13.49	13.94	9
10	17.89	16.94	22.21	20.77	19.27	17.14	15.13	14.82	14.03	13.59	13.31	13.95	10
11	17.93	17.18	21.27	19.94	19.22	17.00	15.31	14.87	13.89	13.71	13.29	14.15	11
12	18.15	17.28	20.95	20.74	19.20	16.46	15.40	14.87	14.02	13.74	13.40	14.13	12
13	18.43	17.39	20.74	20.36	19.21	16.33	15.23	14.78	13.84	13.56	13.39	14.19	13
14	18.65	17.60	20.56	20.27	18.84	16.23	15.02	14.75	13.85	13.57	13.46	14.11	14
15	18.88	17.63	20.52	20.13	18.64	16.13	14.98	14.79	13.68	13.69	13.65	14.12	15
16	19.11	17.59	20.46	19.56	18.43	15.99	14.76	14.66	13.42	13.71	13.57	14.17	16
17	18.92	17.87	20.37	19.30	18.31	15.85	14.11	14.70	13.60	13.55	13.46	14.14	17
18	18.69	18.25	20.45	19.17	18.21	15.80	14.45	14.64	13.43	13.56	13.41	14.21	18
19	18.57	18.35	20.45	19.15	18.30	15.67	14.39	14.51	13.62	13.61	13.41	14.26	19
20	18.34	18.49	20.33	19.07	18.13	15.46	14.35	14.39	13.71	13.43	13.41	14.30	20
21	17.94	19.38	20.33	18.97	17.99	15.26	14.28	14.32	13.58	13.33	13.62	14.32	21
22	17.64	19.39	20.43	18.80	17.97	15.04	14.35	14.36	13.45	13.26	13.91	14.34	22
23	16.61	19.56	20.44	18.61	17.88	15.07	14.39	14.40	13.62	13.23	13.89	14.26	23
24	16.50	19.92	20.32	18.15	17.74	15.06	14.44	14.23	13.76	13.34	13.64	14.23	24
25	16.29	20.45	19.43	17.85	17.73	14.94	14.45	14.14	13.67	13.52	13.77	14.32	25
26	16.17	20.83	18.61	17.83	17.74	14.94	14.38	14.06	13.82	13.27	13.79	14.33	26
27	16.27	20.95	18.13	17.84	17.68	14.97	14.33	13.90	13.98	13.25	13.95	14.32	27
28	16.24	21.01	18.22	17.77	17.60	15.08	14.40	13.83	13.84	13.20	13.95	14.33	28
29	17.22	20.95	18.71	17.70		15.00	14.45	13.82	13.76	13.25	14.10	14.29	29
30	17.82	21.14	18.99	17.88		14.85	14.33	13.99	13.57	13.30	14.00	14.32	30
31	17.87		20.83	18.74		14.87		14.94		13.70	13.93		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-7-65	1130	24.70									
NR - NO RECORD	1-3-66	2400	24.63									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 28	121 13 37	SW 29 38 7E		39.8	12-9-50	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
							APR 52-SEP 65	1959		0.00	USCGS
							OCT 65-DATE		1959	3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto.

TABLE B-10 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1966	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.43	2.60	3.80	5.58	5.44	1.80	1.76	1.52	1.45	1.50	1.66	1.63	1
2	1.37	2.62	3.94	5.49	5.38	1.80	1.77	1.46	1.33	1.58	1.65	1.62	2
3	1.41	2.63	5.45	5.45	5.35	1.90	1.77	1.44	1.34	1.58	1.60	1.60	3
4	1.37	2.64	5.50	5.46	5.35	1.93	1.75	1.42	1.36	1.57	1.57	1.57	4
5	1.39	2.64	5.51	5.50	5.42	2.00	1.62	1.44	1.36	1.49	1.57	1.58	5
6	1.43	2.67	4.77	5.50	6.45	1.99	1.56	1.45	1.35	1.56	1.56	1.56	6
7	1.36	2.67	3.80	5.51	5.41	2.00	1.57	1.48	1.36	1.70	1.59	1.51	7
8	1.32	2.65	3.79	5.49	4.84	2.00	1.58	1.46	1.35	1.57	1.58	1.50	8
9	1.35	2.84	3.79	5.48	5.28	1.99	1.58	1.52	1.34	1.79	1.58	1.52	9
10	1.45	3.81	3.78	5.47	5.26	1.96	1.62	1.45	1.34	1.39	1.80	1.56	10
11	1.47	4.11	3.80	5.46	5.25	1.94	1.58	1.54	1.34	1.65	1.68	1.56	11
12	1.42	4.09	3.82	5.44	5.24	1.98	1.54	1.42	1.33	1.65	1.65	1.51	12
13	1.47	3.86	3.80	5.43	5.22	1.99	1.49	1.39	1.33	1.55	1.61	1.53	13
14	1.42	3.82	3.74	5.42	4.45	1.99	1.46	1.41	1.32	1.37	1.59	1.50	14
15	1.52	3.19	3.77	5.40	3.44	1.99	1.49	1.40	1.31	1.54	1.60	1.60	15
16	2.13	3.26	3.88	5.39	3.40	1.99	1.54	1.38	1.26	1.54	1.57	1.59	16
17	2.14	3.83	5.38	5.38	3.55	1.99	1.53	1.41	1.26	1.50	1.61	1.58	17
18	2.33	4.30	5.47	5.38	4.42	1.99	1.57	1.39	1.26	1.56	1.56	1.59	18
19	2.67	3.93	5.45	5.35	3.48	1.98	1.55	1.39	1.24	1.70	1.55	1.59	19
20	2.64	3.81	5.46	5.34	3.48	2.01	1.55	1.42	1.25	1.38	1.65	1.59	20
21	2.63	3.79	5.45	5.31	3.17	2.00	1.50	1.41	1.64	1.51	1.64	1.56	21
22	2.63	3.79	5.43	5.27	1.83	2.01	1.42	1.34	1.67	1.59	1.68	1.57	22
23	2.57	4.21	5.40	2.84	1.53	2.01	1.44	1.32	1.61	1.62	1.61	1.55	23
24	2.78	4.04	5.40	2.22	1.56	1.91	1.44	1.35	1.63	1.30	1.59	1.61	24
25	2.60	3.86	5.47	1.87	1.65	1.96	1.43	1.35	1.62	1.58	1.62	1.71	25
26	2.61	3.97	5.44	1.78	1.62	1.86	1.47	1.30	1.61	1.30	1.61	1.55	26
27	2.62	3.93	5.42	1.72	1.55	1.85	1.47	1.33	1.57	1.59	1.65	1.53	27
28	2.65	3.89	5.43	1.67	1.85	1.84	1.49	1.30	1.53	1.41	1.60	1.61	28
29	2.63	3.85	5.82	4.00		1.75	1.50	1.31	1.53	1.39	1.62	1.62	29
30	2.62	3.84	6.11	5.92		1.74	1.52	1.31	1.50	1.51	1.62	1.58	30
31	2.60		5.80	5.63		1.75		1.43		1.75	1.60		31

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-30-65	0150	6.93								
NR - NO RECORD	2- 6-66	0230	6.94								
NF - NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LDNGITUDE	1.4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	52000	30.05	11-21-50	JUN 28-DEC 30				0.00	LOCAL
				31.8	12-23-55	APR 40-DATE					

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	803145	STANISLAUS RIVER AT RIVERBANK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	73.61	74.7	76.5	77.45	77.53	77.4	77.97	77.69	77.53	77.65	77.29	77.32	1
2	73.83	74.77	76.34	77.32	77.48	77.4	77.89	77.70	77.52	77.64	77.28	77.32	2
3	73.01	74.72	77.30	77.67	77.43	77.11	77.89	77.70	77.51	77.19	77.19	77.25	3
4	73.93	74.71	77.84	77.64	77.42	77.18	77.88	77.69	77.51	77.15	77.15	77.23	4
5	73.50	74.71	77.86	77.69	77.48	77.43	77.88	77.71	77.53	77.17	77.23	77.23	5
6	73.81	74.73	77.83	77.73	77.53	77.44	77.86	77.69	77.48	77.17	77.23	77.27	6
7	73.84	74.75	77.82	77.65	77.44	77.44	77.86	77.69	77.48	77.17	77.23	77.27	7
8	72.95	74.75	76.12	77.64	77.14	77.34	77.89	77.56	77.46	77.28	77.23	77.30	8
9	72.45	74.69	76.97	77.54	77.19	77.11	77.40	77.61	77.44	77.25	77.21	77.24	9
10	72.47	75.76	76.77	77.62	77.31	77.11	77.30	77.64	77.44	77.17	77.18	77.14	10
11	73.13	76.20	76.80	77.54	77.28	77.21	77.3	77.71	77.45	77.15	77.16	77.24	11
12	73.12	76.46	76.88	77.62	77.27	77.24	77.96	77.71	77.42	77.17	77.18	77.14	12
13	73.05	76.26	76.77	77.57	77.25	77.29	77.79	77.65	77.41	77.17	77.16	77.33	13
14	73.05	76.25	76.88	77.57	77.11	77.11	77.65	77.61	77.40	77.15	77.16	77.36	14
15	73.06	75.87	76.12	77.56	77.68	77.30	77.71	77.56	77.37	77.18	77.21	77.34	15
16	73.41	75.10	76.82	77.55	77.56	77.31	77.67	77.57	77.37	77.18	77.20	77.35	16
17	74.00	76.11	77.18	77.53	77.39	77.67	77.53	77.57	77.17	77.21	77.14	77.33	17
18	74.07	76.41	77.69	77.54	77.49	77.26	77.69	77.57	77.42	77.21	77.21	77.25	18
19	74.69	76.33	77.72	77.52	77.66	77.29	77.69	77.57	77.39	77.17	77.22	77.31	19
20	74.82	76.11	77.72	77.50	77.57	77.34	77.67	77.55	77.25	77.17	77.24	77.30	20
21	74.81	76.07	77.71	77.46	77.51	77.60	77.79	77.55	77.21	77.19	77.26	77.38	21
22	74.87	76.06	77.71	77.43	77.14	77.37	77.74	77.54	77.13	77.14	77.25	77.38	22
23	74.71	76.41	77.68	77.40	77.20	77.38	77.74	77.55	77.27	77.14	77.28	77.38	23
24	74.88	76.31	77.65	77.43	77.26	77.15	77.65	77.55	77.28	77.14	77.27	77.39	24
25	74.77	76.28	77.72	77.47	77.47	77.14	77.66	77.54	77.28	77.18	77.24	77.44	25
26	74.71	76.20	77.68	77.37	77.46	77.11	77.67	77.54	77.30	77.15	77.24	77.45	26
27	74.72	76.12	77.65	77.23	77.69	77.20	77.64	77.55	77.30	77.11	77.24	77.47	27
28	74.76	76.08	77.64	77.14	77.37	77.14	77.61	77.55	77.39	77.13	77.24	77.41	28
29	74.75	76.08	77.65	77.17	77.17	77.16	77.56	77.54	77.37	77.21	77.29	77.45	29
30	74.75	76.06	77.63	77.79	77.17	77.14	77.61	77.55	77.30	77.24	77.29	77.51	30
31	74.72		77.86	77.83		77.90		77.54		77.26			31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	12-5-65	0650	77.87									
	12-30-65	0840	78.90									
NR - NO RECORD	2-6-66	0940	78.70									
NF - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 44 31	120 56 21	SW24 2S 9E	85800	103.18	12-23-55	JUL 40-DATE		1940		0.00	USCGS

Station located at Burneyville Bridge, immediately north of Riverbank. Drainage area is 1,055 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38.34	39.03	41.41	45.12	44.44	37.95	37.67	37.02	36.84	36.57	36.72	36.53	1
2	38.38	39.00	41.41	44.71	44.24	37.88	37.61	37.10	36.85	36.44	36.56	36.51	2
3	38.49	39.03	41.99	44.54	44.19	37.85	37.54	37.12	36.80	36.56	36.43	36.51	3
4	38.58	39.06	44.00	44.47	44.17	37.93	37.50	37.10	36.91	36.77	36.48	36.43	4
5	38.26	39.06	44.27	44.51	44.13	37.96	37.46	37.10	37.14	36.82	36.38	36.51	5
6	38.27	39.07	44.34	44.62	44.75	38.03	37.54	37.17	37.08	36.69	36.34	36.42	6
7	38.41	39.11	42.91	44.54	45.13	38.02	37.41	37.08	36.95	36.55	36.48	36.56	7
8	38.43	39.13	41.73	44.48	44.32	38.01	37.39	37.11	36.95	36.58	36.44	36.59	8
9	38.19	39.12	41.59	44.44	43.56	37.99	37.68	37.17	36.98	36.56	36.33	36.58	9
10	38.31	39.40	41.53	44.42	44.03	37.97	37.84	37.31	36.97	36.57	36.35	36.48	10
11	38.26	40.77	41.51	44.40	44.02	37.92	37.90	37.22	37.01	36.58	36.36	36.64	11
12	38.05	41.37	41.54	44.39	43.99	37.86	37.84	37.24	37.00	36.60	36.43	36.65	12
13	38.16	41.47	41.52	44.37	43.96	37.89	37.67	37.11	36.96	36.64	36.40	36.54	13
14	37.75	41.41	41.48	44.34	43.92	37.89	37.40	37.19	36.98	36.69	36.49	36.50	14
15	38.35	41.32	41.41	44.33	42.46	38.40	37.36	37.15	36.95	36.63	36.41	36.48	15
16	38.39	40.37	41.37	44.30	41.51	38.42	37.32	37.08	36.80	36.54	36.37	36.52	16
17	38.38	40.68	41.90	44.28	41.26	38.23	37.34	37.12	36.64	36.65	36.32	36.51	17
18	38.48	41.50	43.78	44.26	41.91	38.28	37.62	37.09	36.50	36.57	36.30	36.55	18
19	38.46	41.99	44.06	44.23	42.16	38.25	37.49	37.02	36.72	36.46	36.38	36.69	19
20	39.15	41.53	44.15	44.20	41.35	38.58	37.42	37.01	36.68	36.38	36.35	36.49	20
21	39.19	41.37	44.18	44.17	41.26	38.78	37.32	37.06	36.57	36.37	36.65	36.54	21
22	39.25	41.34	44.20	44.11	40.50	38.51	37.27	37.03	36.55	36.37	36.63	36.83	22
23	39.28	41.57	44.19	43.53	38.96	38.27	37.32	37.20	36.79	36.39	36.54	36.62	23
24	39.04	42.12	44.16	40.51	38.38	38.29	37.41	37.24	36.69	36.46	36.49	36.55	24
25	39.27	41.93	44.22	39.49	38.13	38.15	37.42	37.20	36.67	36.43	36.49	36.61	25
26	39.00	41.67	44.29	38.84	38.04	37.83	37.27	37.05	36.68	36.46	36.45	36.75	26
27	38.99	41.61	44.25	38.49	37.93	37.82	37.14	36.93	36.63	36.53	36.55	36.67	27
28	39.02	41.48	44.26	38.26	37.84	38.04	37.21	36.90	36.54	36.39	36.49	36.72	28
29	39.09	41.45	44.61	38.11		37.99	37.07	36.98	36.54	36.54	36.54	36.65	29
30	39.08	41.44	45.56	42.25		37.78	37.01	36.97	36.54	36.46	NR	36.61	30
31	39.07		45.56	44.75		37.64		36.89		36.77	NR		31

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E	—	ESTIMATED									
12-06-65	1400	44.35									
12-30-65	2100	46.17									
02-06-66	2200	45.64									
NR	—	NO RECORD									
NF	—	NO FLOW									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 43 50	121 06 35	SE29 25 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1966	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29.18	29.58	32.00	35.59	34.92	28.40	28.15	27.57	27.15	26.95	27.07	26.87	1
2	29.41	29.36	32.00	35.25	34.69	28.38	28.19	27.45	27.23	26.85	27.05	26.67	2
3	29.56	29.56	32.30	34.97	34.66	28.37	28.14	27.39	27.09	26.84	26.70	26.70	3
4	29.54	29.60	34.15	34.87	34.64	28.38	28.02	27.44	27.32	27.05	26.85	26.73	4
5	29.18	29.59	34.60	34.87	34.60	28.43	28.00	27.53	27.45	27.00	26.66	26.93	5
6	29.07	29.60	34.69	34.96	34.95	28.50	28.09	27.46	27.56	26.92	26.66	26.78	6
7	29.16	29.64	33.79	34.95	35.65	28.48	28.00	27.47	27.61	26.76	26.70	26.77	7
8	29.32	29.65	32.46	34.87	34.88	28.46	27.90	27.32	27.32	26.78	26.77	26.87	8
9	29.25	29.64	32.23	34.83	34.14	28.44	28.06	27.42	27.45	26.97	26.67	26.94	9
10	29.25	29.73	32.15	34.81	34.47	28.43	28.53	27.65	27.36	26.87	26.53	26.81	10
11	29.24	30.96	32.14	34.80	34.49	28.41	28.59	27.64	27.35	26.84	26.60	26.93	11
12	28.92	31.63	32.15	34.80	34.47	28.37	28.48	27.71	27.32	26.81	26.66	27.09	12
13	28.88	31.94	32.13	34.78	34.47	28.34	28.61	27.63	27.37	26.89	26.71	27.09	13
14	28.57	31.90	32.69	34.77	34.42	28.33	28.23	27.60	27.15	26.95	26.69	26.92	14
15	29.11	31.88	32.01	34.76	33.39	28.59	28.00	27.59	27.08	26.82	26.56	26.92	15
16	29.29	31.21	32.02	34.75	32.22	28.97	27.88	27.65	27.08	26.93	26.64	27.00	16
17	29.20	31.01	32.45	34.74	31.94	28.67	27.83	27.58	27.12	27.00	26.48	26.94	17
18	29.24	31.94	34.05	34.74	32.17	28.69	27.94	27.39	27.00	27.00	26.35	27.02	18
19	29.12	32.42	34.48	34.72	32.91	28.66	27.94	27.50	27.19	26.92	26.49	27.21	19
20	29.70	32.13	34.58	34.68	31.99	29.06	27.72	27.29	27.30	26.88	26.65	27.18	20
21	29.77	31.94	34.62	34.65	31.87	29.31	27.56	27.43	26.83	26.69	26.86	26.98	21
22	29.78	31.89	34.64	34.61	31.41	29.18	27.53	27.40	26.89	26.46	26.95	27.42	22
23	29.83	32.01	34.65	34.34	29.81	28.96	27.73	27.53	26.99	26.59	26.89	27.23	23
24	29.63	32.60	34.62	31.72	29.12	28.86	27.84	27.63	27.07	26.81	26.74	27.14	24
25	29.79	32.45	34.64	30.43	28.75	28.71	27.97	27.61	27.04	26.82	26.81	27.13	25
26	29.61	32.24	34.71	29.78	28.61	28.46	27.92	27.43	27.04	26.99	26.92	27.31	26
27	29.55	32.19	34.69	29.31	28.49	28.28	27.69	27.30	26.95	26.91	27.11	27.19	27
28	29.55	32.06	34.71	29.02	28.38	28.55	27.64	27.17	26.80	26.82	27.05	27.18	28
29	29.59	32.02	34.97	28.84		28.61	27.66	27.32	26.68	26.59	26.97	27.24	29
30	29.63	32.01	35.83	31.51		28.45	27.48	27.27	26.68	26.67	27.01	27.06	30
31	29.62		36.57	34.94		28.21		27.28		27.03	26.97		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
	E - ESTIMATED	12-6-65	1410	34.70								
NR - NO RECORD	12-31-65	0000	36.43									
NF - NO FLOW	2-7-66	0320	35.94									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE NT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E				OCT 62-DATE	MAR 50-SEP 62	1950	1951	0.00	USED
								1951		0.00	USED
								1951		3.60	USCS

Station located on left bank 9.35 miles upstream from mouth 0.6 mile northwest of Bacon and Gages road junction, 3.7 miles southwest of Ripon.

TABLE B-10 (Cont.)

WATER YEAR	STATION NO	STATION NAME
1966	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.27	14.44	18.40	19.16	16.60	13.90	11.37	10.66	10.08	9.51	10.01	9.86	1
2	14.42	14.22	19.20	20.21	16.57	14.09	11.26	10.72	10.05	9.60	9.96	9.85	2
3	14.53	13.95	19.73	20.90	16.46	14.33	11.15	10.58	10.14	9.70	9.83	9.83	3
4	14.58	13.93	20.35	21.12	16.32	14.32	11.13	10.55	10.09	9.80	9.59	10.03	4
5	14.50	13.92	20.85	20.47	16.18	14.28	11.01	10.54	10.28	9.90	9.46	10.13	5
6	14.43	13.93	21.10	19.38	16.20	14.21	10.98	10.64	10.36	9.80	9.39	10.05	6
7	14.66	13.85	21.20	18.43	16.93	13.75	10.86	10.63	10.44	9.67	9.40	10.07	7
8	14.73	13.74	20.97	17.85	17.25	13.48	10.81	10.71	10.45	9.54	9.45	9.97	8
9	14.72	13.61	20.39	17.50	16.55	13.41	11.02	10.80	10.34	9.59	9.48	10.02	9
10	14.55	13.73	19.06	17.25	16.29	13.43	11.52	11.03	10.35	9.63	9.41	10.04	10
11	14.54	13.95	18.08	17.11	16.27	13.35	11.83	11.26	10.14	9.72	9.28	10.18	11
12	14.67	14.23	17.71	17.33	16.25	12.86	11.93	11.22	10.10	9.68	9.35	10.24	12
13	14.90	14.43	17.51	17.46	16.12	12.69	11.78	11.11	10.04	9.68	9.40	10.26	13
14	15.08	14.60	17.33	17.38	16.01	12.59	11.45	11.07	9.99	9.63	9.50	10.16	14
15	15.31	14.62	17.29	17.27	15.74	12.50	11.35	11.09	9.63	9.70	9.64	10.16	15
16	15.60	14.53	17.23	16.79	15.32	12.49	11.12	11.09	9.47	9.73	9.58	10.25	16
17	15.50	14.64	17.17	16.50	15.11	12.34	10.86	10.98	9.47	9.73	9.44	10.21	17
18	15.22	15.11	17.39	16.37	14.96	12.23	10.82	10.86	9.52	9.79	9.34	10.24	18
19	15.10	15.27	17.53	16.33	15.25	12.34	10.83	10.73	9.70	9.68	9.33	10.36	19
20	14.93	15.39	17.42	16.25	15.02	12.02	10.72	10.61	9.91	9.50	9.32	10.37	20
21	14.66	15.78	17.40	16.17	14.82	11.85	10.61	10.53	9.73	9.32	9.50	10.39	21
22	13.82	16.12	17.49	16.03	14.72	11.60	10.65	10.61	9.57	9.35	9.79	10.43	22
23	13.38	16.28	17.52	15.85	14.47	11.57	10.73	10.64	9.74	9.24	9.85	10.48	23
24	13.22	16.63	17.44	15.24	14.15	11.55	10.83	10.54	9.86	9.36	9.63	10.42	24
25	13.08	17.09	16.73	14.62	14.07	11.46	10.82	10.40	9.85	9.55	9.70	10.38	25
26	13.01	17.41	15.98	14.43	14.05	11.39	10.65	10.22	9.83	9.33	9.75	10.43	26
27	13.08	17.53	15.53	14.36	13.99	11.40	10.56	10.28	9.94	9.28	9.94	10.43	27
28	12.99	17.60	15.52	14.25	13.87	11.53	10.54	10.09	9.99	9.21	10.00	10.37	28
29	13.68	17.57	15.95	14.14		11.51	10.65	10.28	9.98	9.20	10.11	10.38	29
30	14.37	17.63	16.21	14.38		11.36	10.62	10.36	9.70	9.21	10.05	10.39	30
31	14.49		17.62	15.66		11.27		10.28		9.63	9.96		31

CREST STAGES

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E — ESTIMATED	12-7-65	1100	21.23									
NR — NO RECORD	1-4-66	0600	21.18									
NF — NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT DONLY	PERIOD		REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 51		79000	27.75	12-9-50	JUL 22-DEC 23 JAN 24-FEB 25 JUN 25-OCT 28 MAY 29-DATE		1931		8.4	USED
								1959		5.06	USCGS
										0.00	USCGS

Station located 30 feet upstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River, 3.4 miles northeast of Vernalis. Records furnished by U. S. Geological Survey. Drainage area is approximately 13,540 square miles (revised). This station equipped with DWR radio telemeter.

TABLE B-11
CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This tabulation includes all known corrections and revisions pertaining to the San Joaquin District for the following series of reports:

1924-1955	Sacramento - San Joaquin Water Supervision
1956-1962	Bulletin No. 23, Surface Water Flow
1963-1965	Bulletin No. 130, Hydrologic Data, Volume IV, San Joaquin Valley

TABLE B-11
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR		ITEM	CHANGE	
		NAME			FROM	TO
		Water Supervision Report 1931				
		All Diversion Tables		Total Diversion Heading	April to Oct.	March to Oct.
		Water Supervision Report 1954				
53		Table 4 - San Joaquin River Delta-Mendota Canal		Deliveries - Jan.	5169	0
				Feb.	50285	24921
				March	69033	59848
				April	119288	99325
				May	80636	63999
				June	173429	147710
				July	196487	162006
				Aug.	174795	149400
				Sept.	107779	97507
				Oct.	54734	44198
				Nov.	13492	9572
				Dec.	498	C
				Total	1045625	858486
				Measured Inflow		
				Jan.	25059	19890
				Feb.	68630	43266
				March	74472	65287
				April	129241	109278
				May	151462	134825
				June	179822	154103
				July	198355	163874
				Aug.	177496	152101
				Sept.	110145	99873
				Oct.	57316	46780
				Nov.	21846	17926
				Dec.	15380	14882
				Total	1209224	1022085
				Unmeasured Accretions		
				Jan.	-7086	-1917
				Feb.	-36137	-10773
				March	-14473	-5288
				April	-24495	-4532
				May	-23621	-6984
				June	-34559	-8840
				July	-45417	-10936
				Aug.	-32993	-7598
				Sept.	-17665	-7393
				Oct.	-7854	+2682
				Nov.	-4578	-658
				Dec.	-1055	-557
				Total	-249933	-62794
		Millerton Lake to Vernalis		Total		
				Unmeasured Accretions		
				Jan.	+9369	+14538
				Feb.	+3951	+29315
				March	+42325	+51510
				April	+34245	+54208
				May	+25809	+42446
				June	+13606	+39325
				July	-22937	+11544
				Aug.	-13939	+11456
				Sept.	+5049	+15321
				Oct.	+7796	+18332
				Nov.	+6043	+9963
				Dec.	+19262	+19760
				Total	+130579	+317718
176	186.6L	San Luis Canal Co.		Diversions - Dec.	6833	5833
176	219.8R	Columbia Canal Co.		Diversions - May	8099	8009
187		Table 202 - Delta-Mendota Canal		Net Deliveries		
				April	99329	99167
				June	147710	146260
				July	162006	161207
				Aug.	149609	148629
				Sept.	97509	97288
				Nov.	9578	9572
				Total	855416	851798

TABLE B-11 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR		ITEM	CHANGE	
		NAME			FROM	TO
				Add footnote *** and reference to "Net deliveries" line		This item does not include deliveries to Panoche Water District etc., via Mendota Pool and C.C.I.D. outside canal
214		Table 221 - San Joaquin River at Friant		March 15 Parts/million Na K	0.8 4.8	4.8 0.8
		Bulletin 23-55 Surface Water Flow for 1955				
95		Table 127, San Joaquin River at Whitehouse		Mean - Dec.	1757	1190
102		Table 142		March acre-feet	623	633
162		Rancho El Pescadera		Change name	Rancho El Pes- cadera	Rancho El Pes- cadera
		Bulletin 23-57 Surface Water Flow for 1957				
166	1.1	--HILLS FERRY BRIDGE--		Mile & Bank		Add 1.1
166	11.25R	M. Turner		No. & Size Pump		Add 1-2'
166	16.49	--RECORDING GAGE--		Mile & Bank		Add "16.49" and relocate in proper position
		Bulletin 23-58 Surface Water Flow for 1958				
43		Table 23 - Mariposa Creek near Cathay		Maximum Discharge of Record	4530E	7180E
		Table 123 - San Joaquin River at Grayson		Daily Mean Discharge		
				May 1	14900	9920
				May 2	15000	9700
				May 3	14800	9505
				May 4	14700	9455
				May 5	16100	9660
				May 6	15100	9920
149		Table 183 - Stanislaus River at Orange Blossom Bridge		Daily Mean Discharge		
				May 17	6280	6390
				May 18	5710	6980
				May 19	5330	7400
				May 20	5840	6830
				May 21	6130	6530
				May 22	5060	7670
				May 23	4910	7990
				May 24	4630	8420
				May 25	4010	9520
				May 26	4930	7920
				May 27	5400	7300
				May 28	5430	7260
				May 29	5940	6680
				May 30	6520	6110
				May 31	6340	6030
247		Table 341 - Stanislaus River at Orange Blossom Bridge		Daily Mean Gage Height		
				May 17	10.8	11.2
				May 18	10.2	11.8
				May 19	9.8	12.2
				May 20	10.4	11.6
				May 21	10.7	11.3
				May 22	9.6	12.4
				May 23	9.4	12.6
				May 24	9.1	12.9
				May 25	8.4	13.5
				May 26	9.4	12.6
				May 27	9.9	12.1
				May 28	10.0	12.0
				May 29	10.5	11.5
				May 30	11.1	10.9

TABLE B-11 (Cont.)
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE B BANK	LOCATION OF ERROR		ITEM	CHANGE	
		NAME			FROM	TO
42		Bulletin 23-59 Surface Water Flow for 1959		Maximum Discharge 1959 Water Year	1620	2114
		Table 24 - Mariposa Creek near Cathay		Maximum Discharge of record	4530E	7180E
42		Table 24 - Maxwell Creek at Coulterville		Maximum Discharge of record	528	740
40		Bulletin 23-60 Surface Water Flow for 1960		Maximum Discharge 1960 Water Year	935	1044
		Table 22 - Mariposa Creek near Cathay		Maximum Discharge of record	4530E	7180E
40		Table 22 - Maxwell Creek at Coulterville		Maximum Discharge 1960 Water Year	956E	1720E
				Maximum Discharge of record	956E	1720E
55		Bulletin 23-61 Surface Water Flow for 1961		Maximum Discharge of record	4530E	7180E
55		Table 16 - Maxwell Creek at Coulterville		Maximum Discharge of record	956E	1720E
142		Bulletin 23-62 Surface Water Flow for 1962		Maximum Discharge 1962 Water Year	3840	4620
		Table 128 - Mariposa Creek near Cathay		Maximum Discharge of record	4530E	7180E
149		Table 135 - Burns Creek at Hornitos		Maximum Discharge 1962 Water Year	4340E	9200E
				Maximum Discharge of record	4340E	9200E
153		Table 139 - Maxwell Creek at Coulterville		Maximum Discharge 1962 Water Year	797	1550
				Maximum Discharge of record	956E	1720E
188		Table 174 - Tule River below Porterville		Daily Mean Discharge May 4 May 5	365 416	450 450
B-18		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley		Daily Mean Discharge Jan. 30 Jan. 31 Feb. 1 Feb. 2	430 1500E 1090E 161	294 1000 670 94
		Table B-8 - Lewis Fork Fresno River near Oakhurst		Maximum Discharge 1963 Water Year	NR	2000
				Maximum Discharge of record	2930E 4.93	2000 5.00
B-31		Table B-21 - Burns Creek at Hornitos		Maximum Discharge 1963 Water Year	1340E	2000E
				Maximum Discharge of record	4340E	9200E

TABLE B-11 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR NAME	ITEM	CHANGE							
				FROM	TO						
66		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley Table B-4 - Big Creek Diversion near Fish Camp	Daily Mean Discharge								
			Jan. 13	10	5.5E						
			Jan. 14	14	6.5E						
			Jan. 15	18	5.0E						
			Jan. 16	22	5.0E						
			Jan. 17	21	8.0E						
			Jan. 18	30	3.5E						
			Jan. 19	23	3.5E						
			Jan. 20	6.6	3.5E						
			Jan. 21	5.3	10E						
			Jan. 22	22	5.0E						
			Jan. 23	51	7.0E						
			Jan. 24	56	8.5E						
			Jan. 25	54	8.5E						
			Jan. 26	48	12E						
			Jan. 27	40	9.5E						
			Jan. 28	41	10E						
			Jan. 29	41	10E						
			Jan. 30	35	10E						
			Jan. 31	24	8.0E						
			Monthly acre-feet	1276	437E						
			Water Year Total	8722	7883						
			67		Table B-4 - Lewis Fork Fresno River near Oakhurst	Maximum Discharge of record	2930E 4.93	2000 5.00			
						flow gage ht.					
			80		Table B-4 - Burns Creek at Hornitos	Maximum Discharge 1964 Water Year	222	205			
						Maximum Discharge of record	4340E	9200E			
			145	186.6L	Table B-6 - San Luis Canal Company	Diversions--Nov. Sept.	3486 18828	3489 15828			
						145	(0.4L)	Table B-6 - Firebaugh Canal Company	Diversions--Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	835 117 20 0 1722 9956 11748 13440 14231 13765 5946 1203 72983	1720 89 12 389 2993 4965 9556 11450 12228 15043 14251 5472 78168
			145	Table B-6 - James Irrigation District	Diversions--Total				4855	48550	
			146		264.08L				Table B-6 - H. W. Ball	Diversions--June July Aug. Sept. Total	36 103 110 80 329
				Total Diversions--Oct. March April May June July Aug. Sept. Total						252 567 968 1114 1738 2710 2390 1240 11230	256 572 1012 1130 1753 2695 2360 1192 11220
52		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley Table B-3 - Summary of Principal Reservoir Storage in the San Joaquin Valley		In Storage October 1, 1965							
				Relief						0	4850
				Strawberry						11870	13720
				Melones						14786	33870
				Lake Eleanor						1040	11490
				Lake Lloyd						143070	169300
				Hetch Hetchy						267660	308510
				Don Pedro						94140	175340

TABLE B-11 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
			Turlock Lake	31380	42000
			Lake McClure	102580	101250
			Crane Valley	20760	23330
			Lake Thomas A. Edison	98960	108630
			Florence Lake	270	19920
			Mammoth Pool	34580	42620
			Huntington Lake	85510	88450
			Redinger Lake	25390	22220
			Shaver Lake	80960	113980
			Millerton Lake	167200	166100
			Wishon	31020	60430
			Pine Flat	457710	419320
			Terminus	9800	8720
			Success	6970	21210
			Isabella	176160	208950
			TOTAL	2053162	2355562
60		Table B-5 - Lewis Fork Fresno River near Oakhurst	Maximum Discharge flow of record gage ht.	2930E 4.93	2000 5.00
79		Table B-5 - Maxwell Creek at Coulterville	Maximum Discharge of record	12-23-65	12-23-64
92		Table B-5 - Stanislaus River at Koetitz Ranch	Station history note	<p>Cross out-- These estimates are based on flows at the Stanislaus River at Ripon gage.</p> <p>Add-- The estimated flows for Dec. 25-30, 1964 are for the main channel only and do not include water bypassing the station by overtopping left bank levee and overflowing flood plain on right bank.</p>	



APPENDIX C
GROUND WATER MEASUREMENT



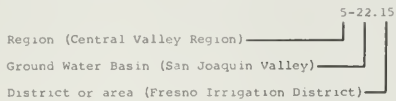
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the spring well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 800 wells for reporting of actual measurements.

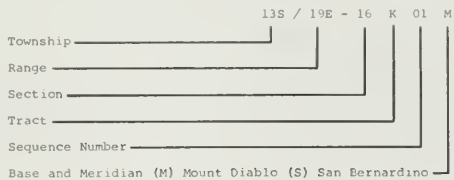
This appendix presents ground water measurement data on these 800 wells for the period July 1, 1965, through June 30, 1966. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this report comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

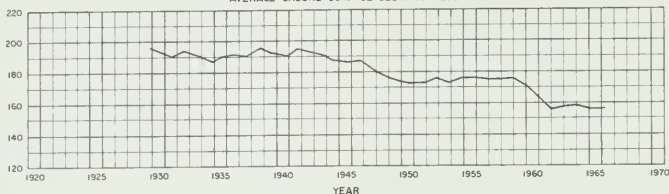
D	C	B	A
E	F	G	H
M	L	K	J
N	I	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

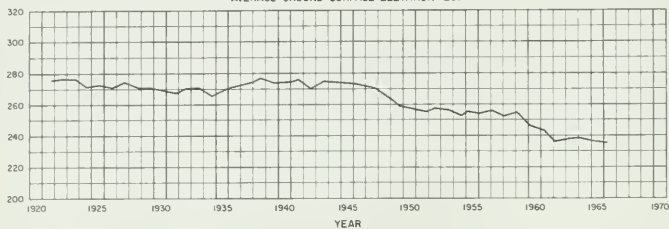
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

M
A
J
O
R
I
T
Y
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N
E
L
E
V
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O
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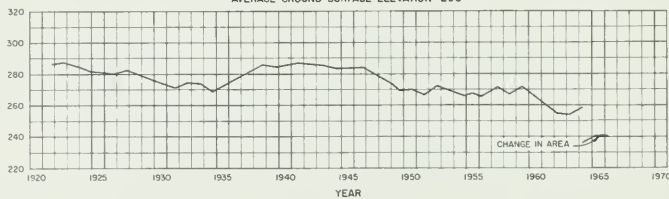
MADERA GROUND WATER AREA
 AREA 342.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
 AREA 404.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
 AREA 243.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
 AREA 18.15 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'

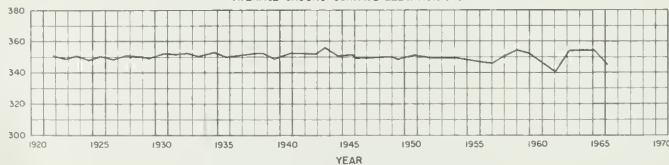
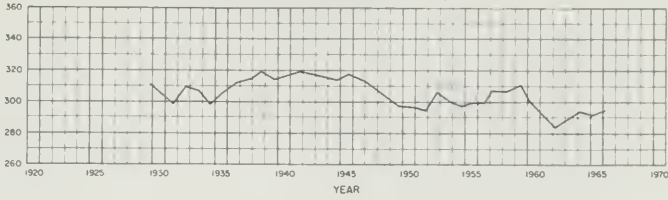


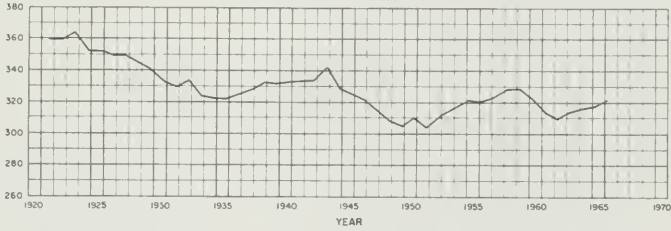
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET DATUM U.S. COAST AND GEOD. SURVEY

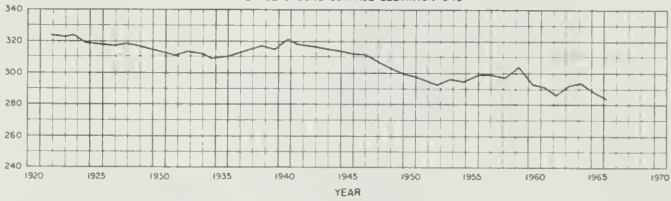
ALTA GROUND WATER AREA
 AREA 190.93 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 331'



IVANHOE GROUND WATER AREA
 AREA 17.37 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 383'



OUTSIDE IVANHOE GROUND WATER AREA
 AREA 76.65 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 345'



MILL CREEK GROUND WATER AREA
 AREA 128.25 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 305'

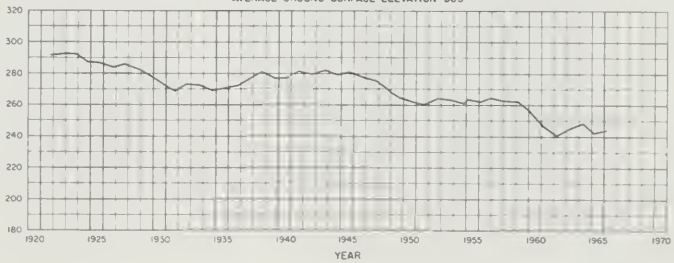


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

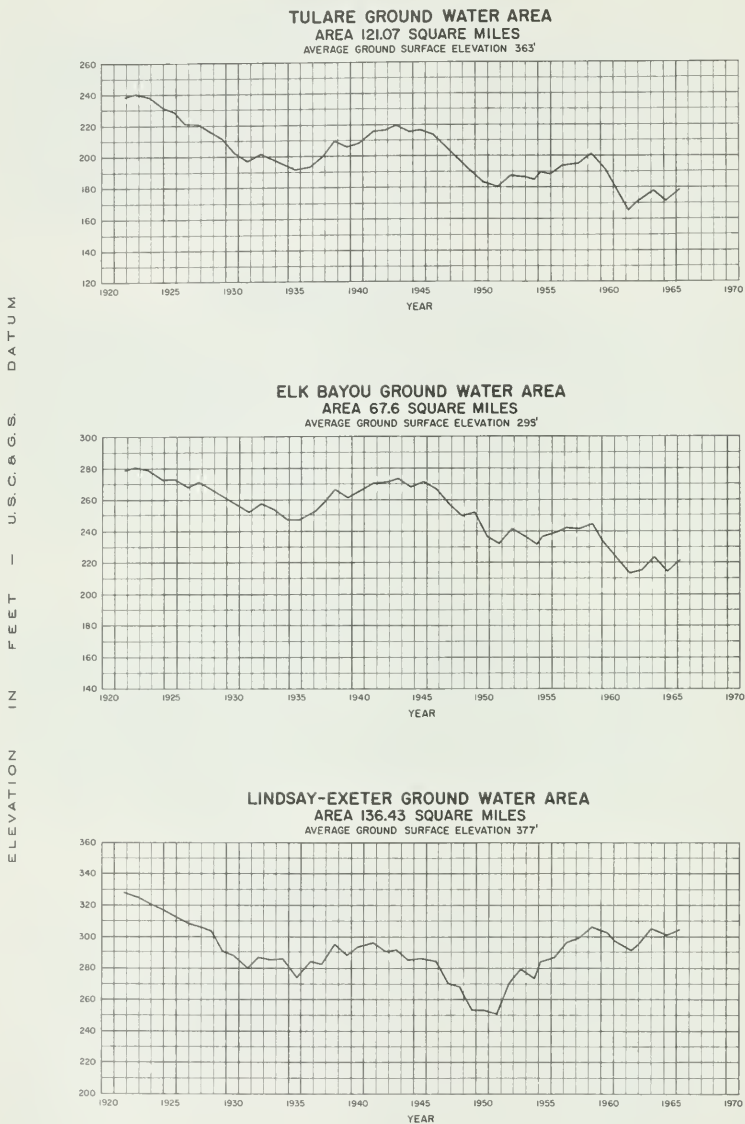


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

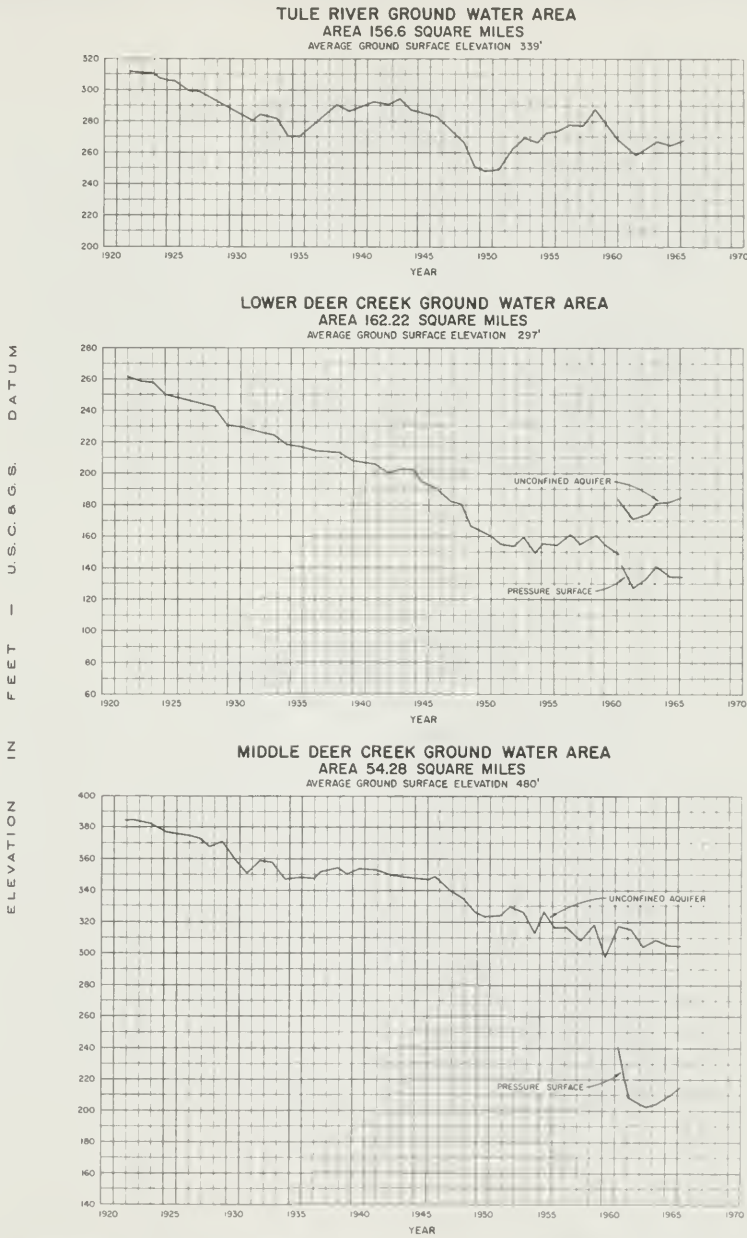


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

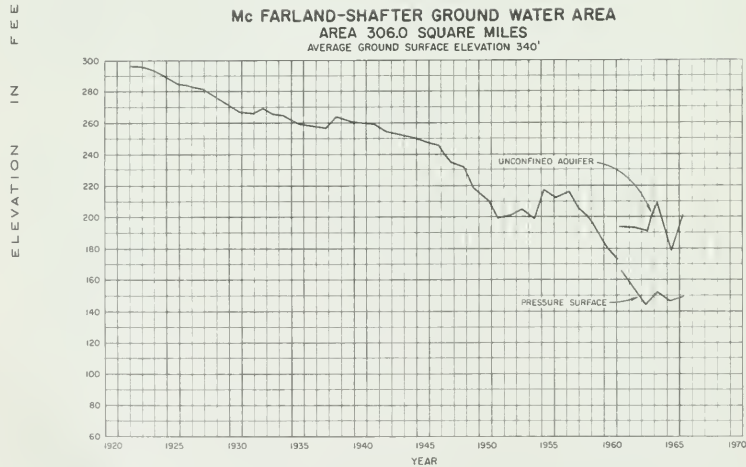
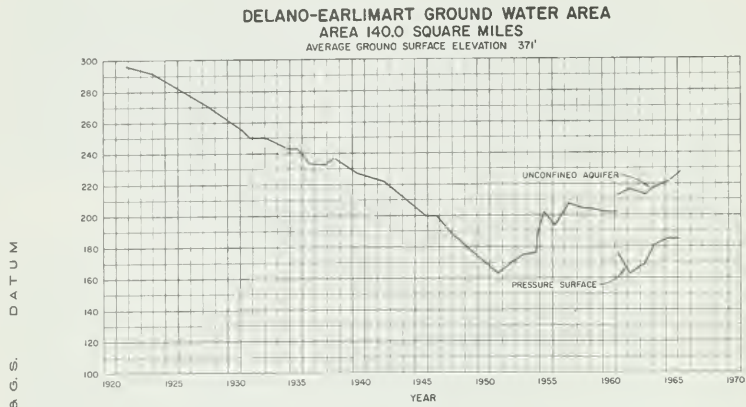


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

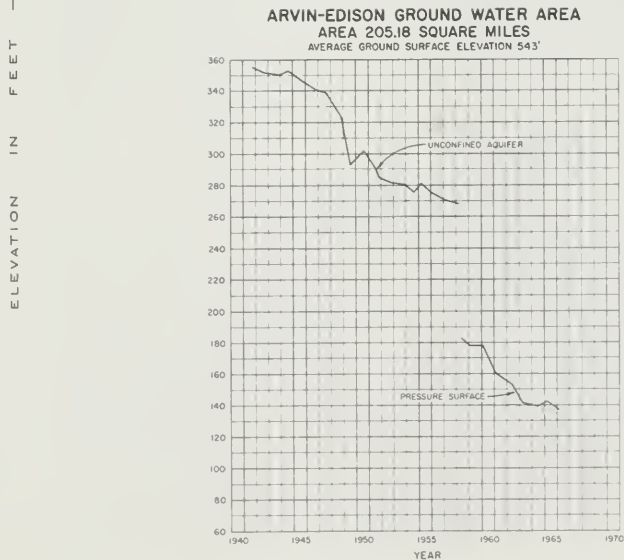
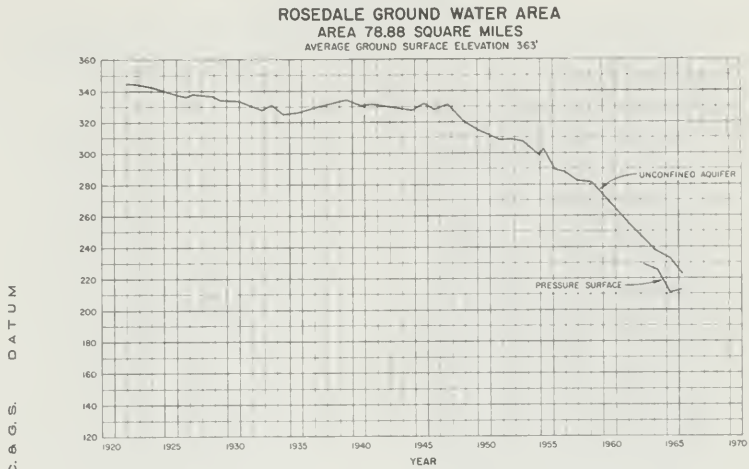


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

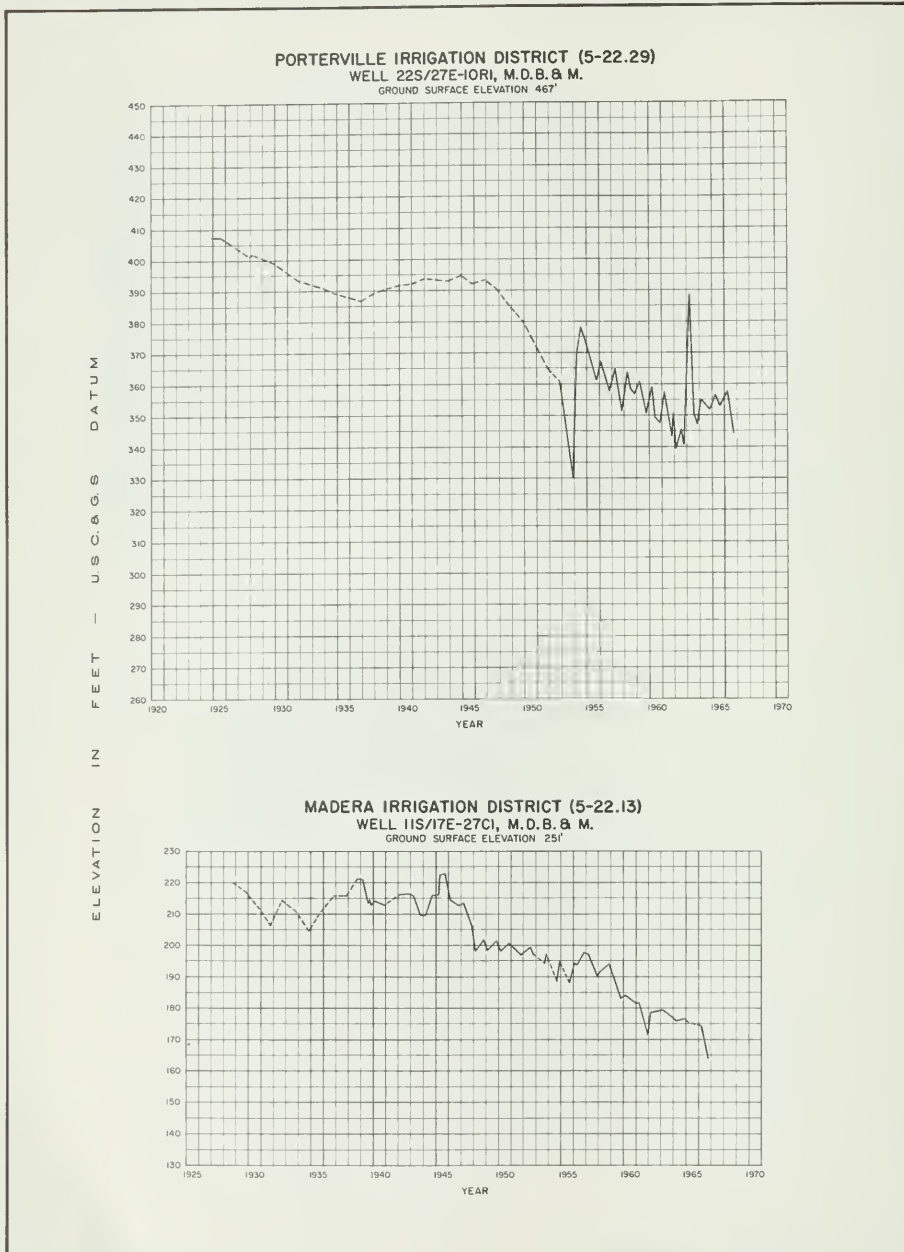
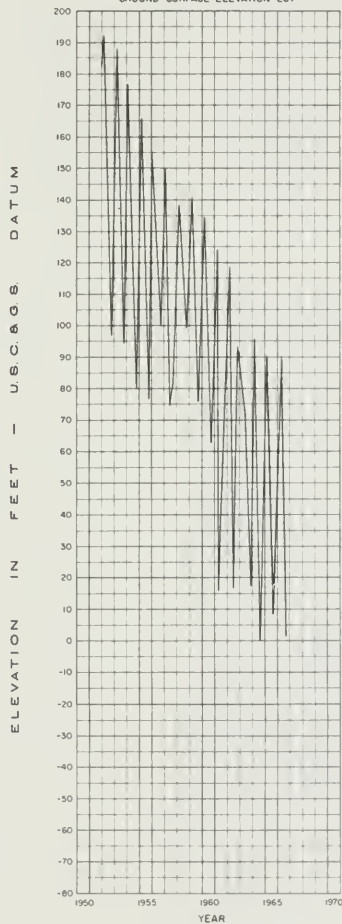
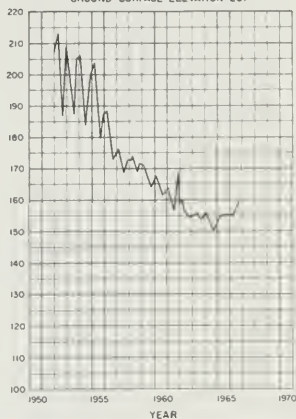


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



MERCED IRRIGATION DISTRICT
(5-22.09)
WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'

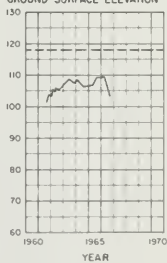
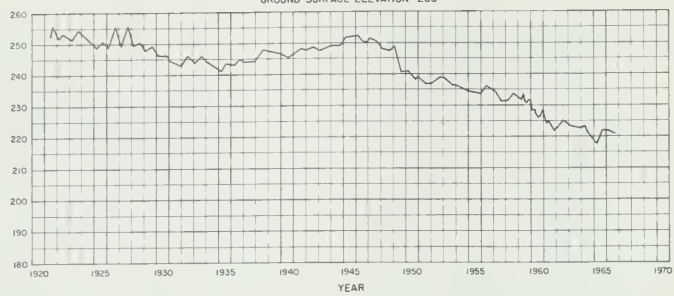


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET — U.S.C. & G.S. DATUM

FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 13S/19E-90I, M.D.B. & M.
 GROUND SURFACE ELEVATION 288'



NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 392'

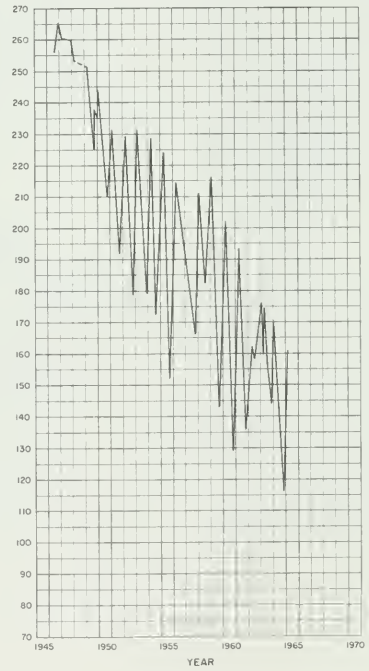
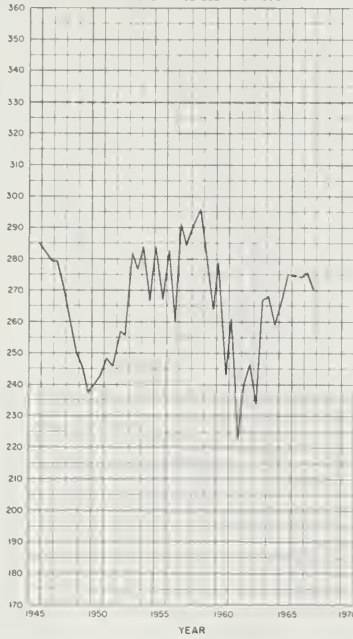


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
U.S.C. & G.S.
DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 2IS/26E-7AI, M.D.B. & M.
GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33JI, M.D.B. & M.
GROUND SURFACE ELEVATION 167'

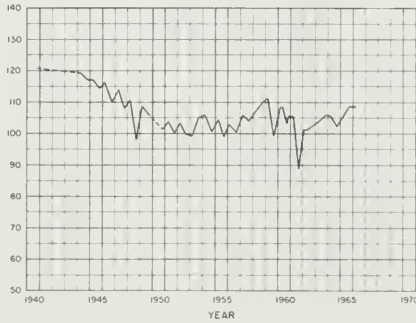
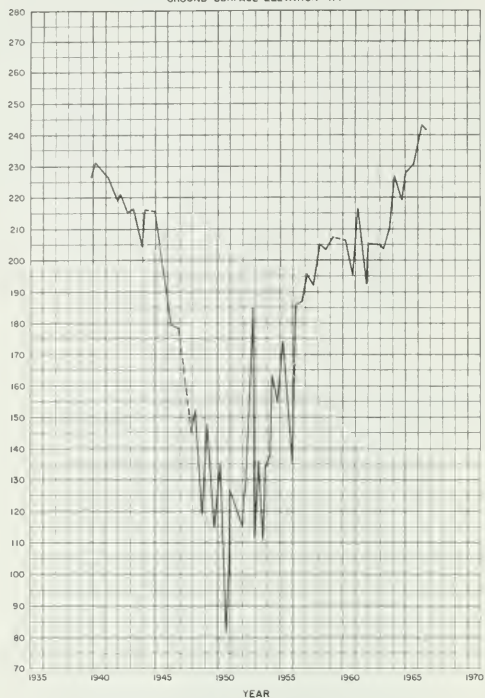


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 414'

ELEVATION IN FEET U.S.C. & G.S. DATUM



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

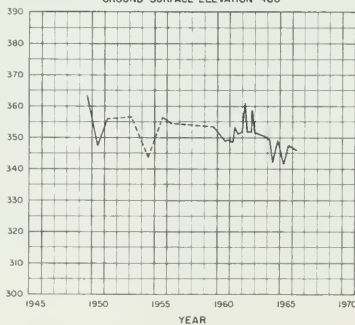
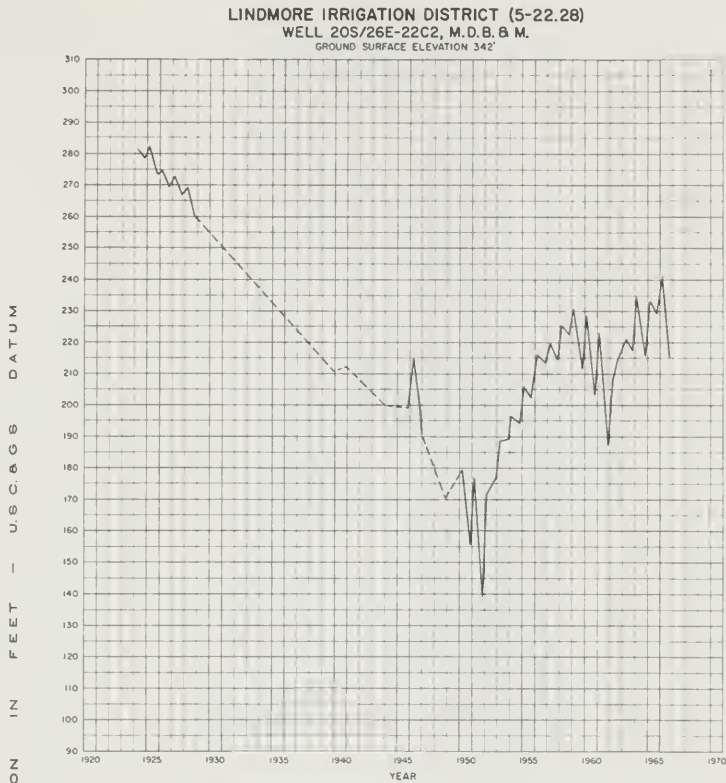
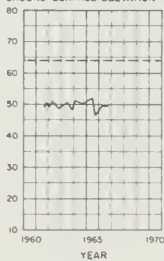


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT
(5-22.07)
WELL 3S/BE-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT
(5-22.08)
WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

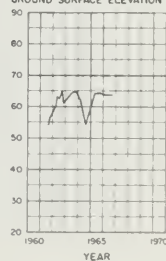
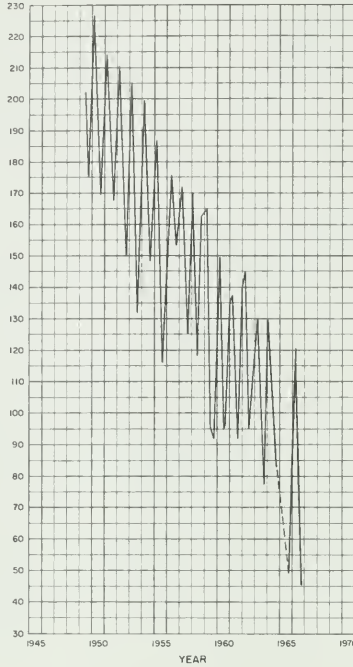


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C. & G.S. DATUM

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
 GROUND SURFACE ELEVATION 316'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-18N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 99'

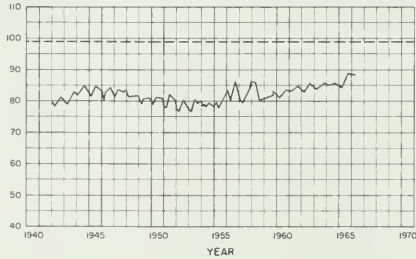
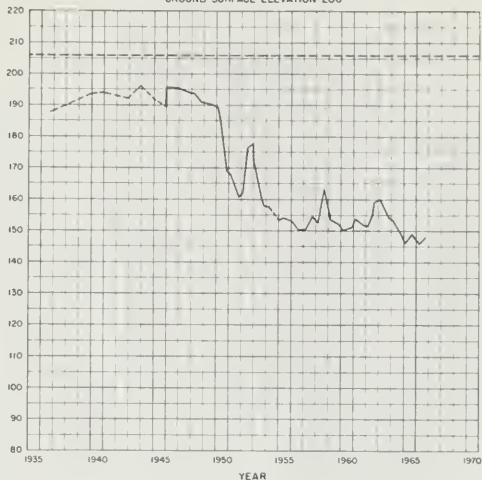


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET
SUBSAGS
DATUM

ALPAUGH-AlLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
 GROUND SURFACE ELEVATION 206'



MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B. & M.

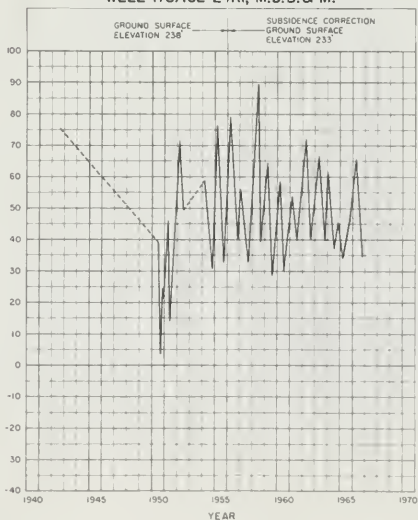
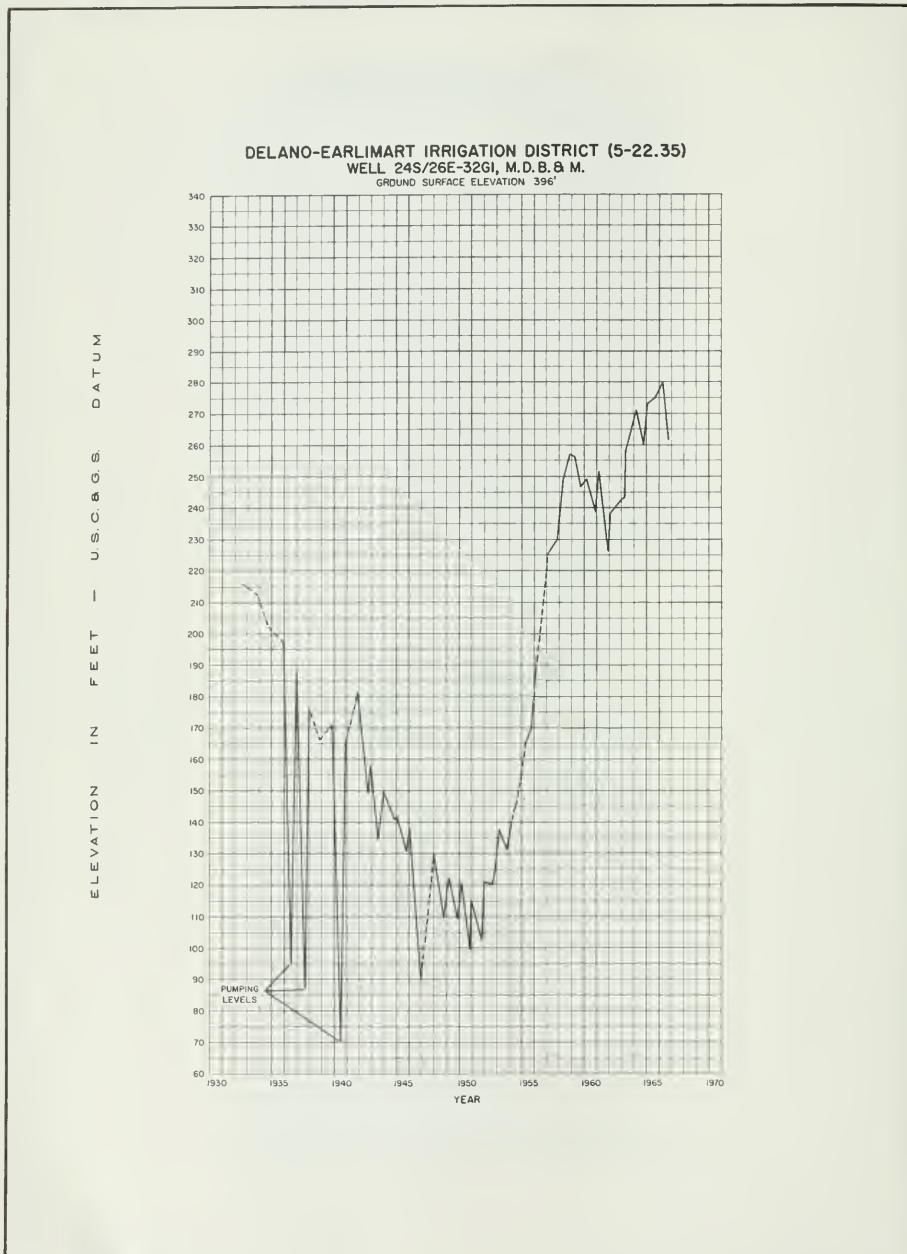


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

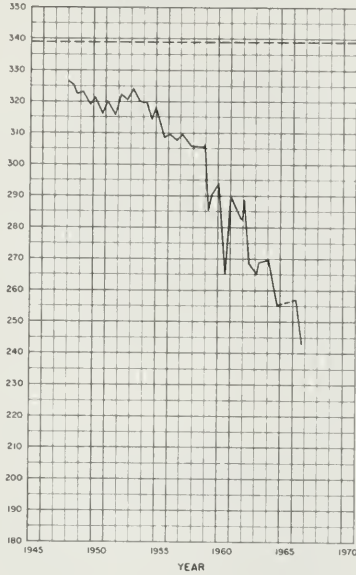


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 339'



STONE CORRAL IRRIGATION DISTRICT (5-22.22)
WELL 16S/26E-32R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 405'

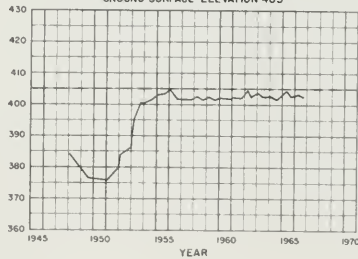
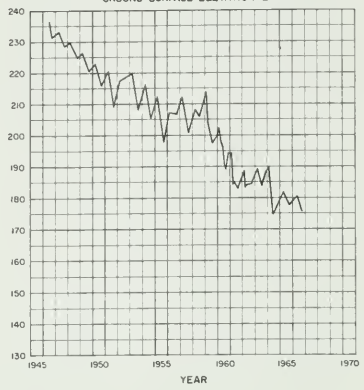


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
—
U.S.C. & G.S.
DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
GROUND SURFACE ELEVATION 247'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
GROUND SURFACE ELEVATION 371'

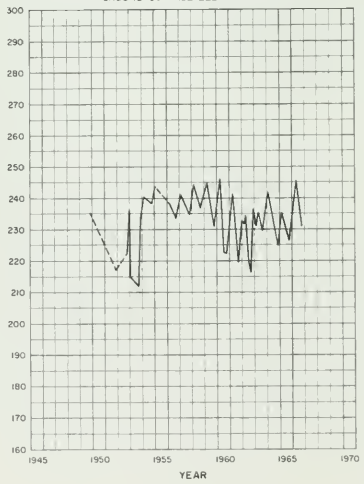


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C.&G.S. DATUM

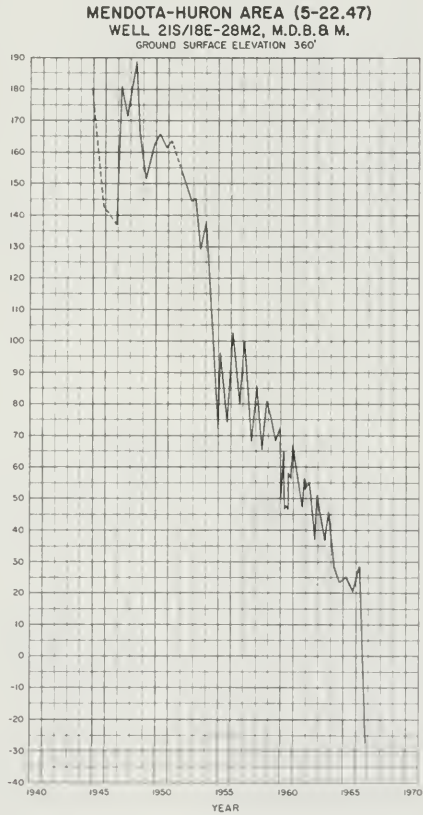


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C.&G.S. DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B.&M.
 GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B.&M.
 GROUND SURFACE ELEVATION 446'

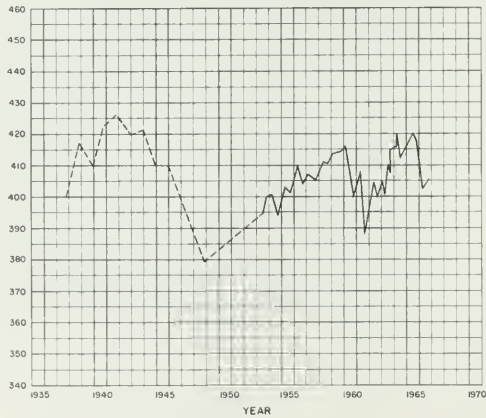
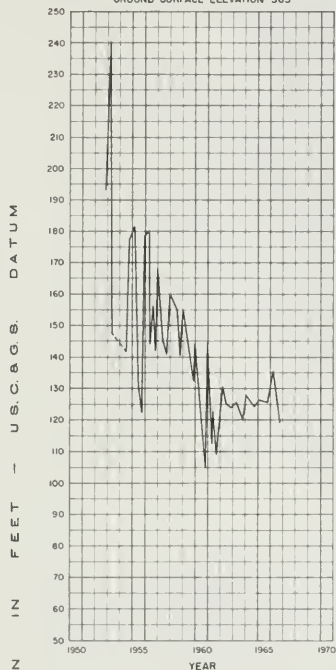
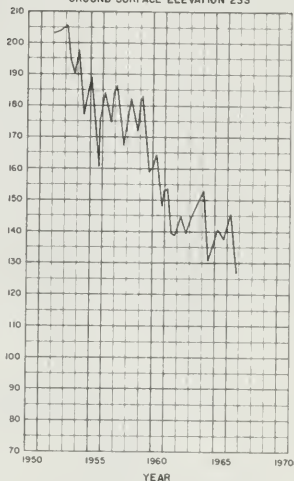


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

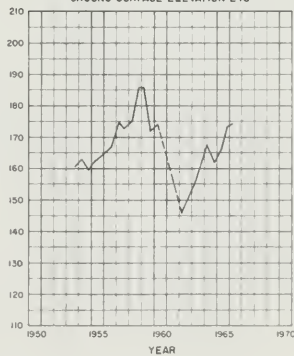
EDISON-MARICOPA AREA (5-22.41)
WELL 12N/20W-31R1, S.B.B.&M.
 GROUND SURFACE ELEVATION 363'



KAWEAH DELTA
WATER CONSERVATION DISTRICT (5-22.24)
WELL 19S/22E-19A2, M.D.B.&M.
 GROUND SURFACE ELEVATION 235'



TULARE IRRIGATION DISTRICT (5-22.25)
WELL 20S/23E-10J1, M.D.B.&M.
 GROUND SURFACE ELEVATION 248'



IVANHOE
IRRIGATION DISTRICT (5-22.23)
WELL 17S/25E-35M1, M.D.B.&M.
 GROUND SURFACE ELEVATION 349'

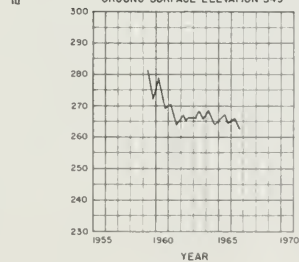


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

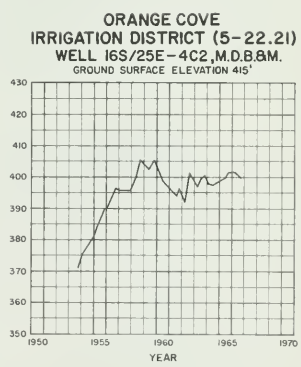
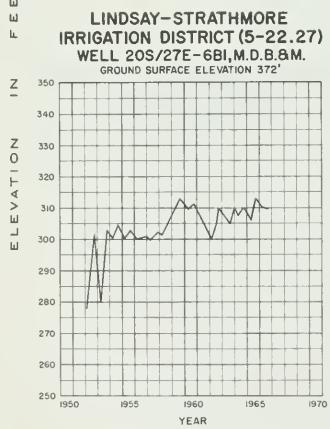
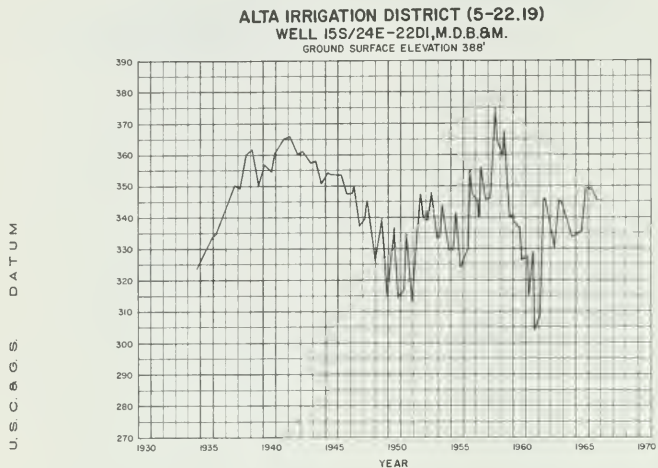
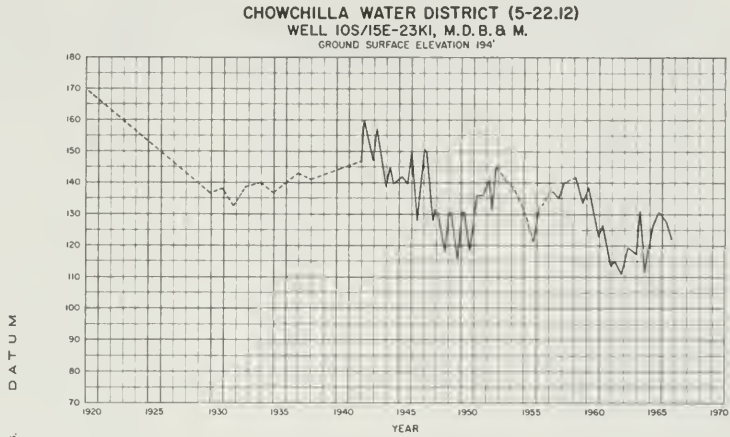


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



ELEVATION IN FEET

DELTA-MENDOTA AREA-DEEP ZONE (5-22.11)
WELL 13S/13E-15R1, M.D.B. & M.

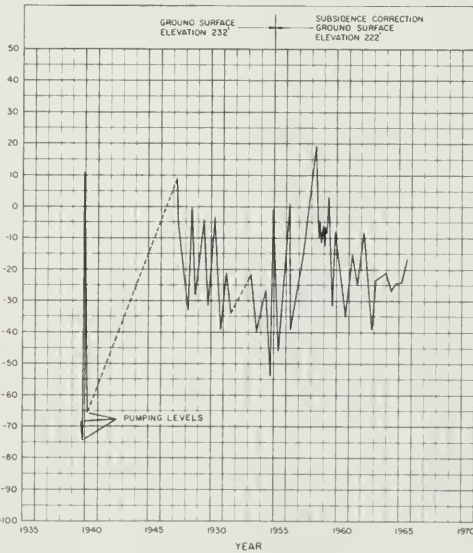


TABLE C-1
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1965 - Spring 1966

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Tracy Area	5-22.04	17	+ 0.2
Oakdale Irrigation District	5-22.06	a/	+ 1.6
Modesto Irrigation District	5-22.07	a/	+ 4.2
Turlock Irrigation District	5-22.08	a/	+ 0.8
Merced Irrigation District	5-22.09	a/	- 0.4
El Nido Irrigation District	5-22.10	a/	- 4.3
Delta-Mendota Area	5-22.11	491	- 2.6
Chowchilla Water District	5-22.12	a/	+ 0.6
Madera Irrigation District	5-22.13	a/	- 0.6
West Chowchilla-Madera Area	5-22.14	a/	- 1.1
Fresno Irrigation District	5-22.15	a/	- 2.2
City of Fresno	5-22.16	57	- 0.6
Fresno Slough Area	5-22.17	a/	- 4.2
Consolidated Irrigation District	5-22.18	a/	0.0
Alta Irrigation District	5-22.19	a/	- 2.9
Lower Kings River Area	5-22.20		
Shallow Zone		a/	+ 9.5
Deep Zone		a/	- 6.6
Orange Cove Irrigation District	5-22.21	84	+ 2.0
Stone Corral Irrigation District	5-22.22	16	- 0.5
Ivanhoe Irrigation District	5-22.23	a/	+ 1.2
Kaweah-Delta Water Conservation District	5-22.24	a/	- 2.4
Tulare Irrigation District	5-22.25	a/	+ 9.6
Exeter Irrigation District	5-22.26	a/	- 1.4
Lindsay-Strathmore Irrigation District	5-22.27	a/	+ 0.2
Lindmore Irrigation District	5-22.28	a/	- 0.3
Porterville Irrigation District	5-22.29	a/	- 1.2
Lower Tule River Irrigation District	5-22.30		
Shallow Zone		a/	+ 5.8
Deep Zone		a/	-16.2
Vandalia Irrigation District	5-22.31	3	+ 3.5
Saucelito Irrigation District	5-22.32		
Shallow Zone		a/	- 1.1
Deep Zone		a/	- 0.8
Pixley Irrigation District	5-22.33		
Shallow Zone		a/	- 3.7
Deep Zone		a/	+ 4.9

TABLE C-1 (Cont.)
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1965 - Spring 1966

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone		a/	+ 1.4
Deep Zone		a/	-19.4
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone		a/	+ 6.0
Deep Zone		a/	+10.0
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone		a/	+ 1.8
Deep Zone		a/	+ 4.9
North Kern Water Storage District	5-22.37		
Shallow Zone		a/	+ 5.4
Deep Zone		a/	+ 6.4
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone		a/	+ 3.8
Deep Zone		a/	+ 0.8
City of Bakersfield	5-22.39	24	- 3.5
Kern River Delta Area	5-22.40		
Shallow Zone		a/	- 5.2
Deep Zone		a/	- 0.1
Edison-Maricopa Area	5-22.41		
Deep Zone		a/	- 4.9
Buena Vista Water Storage District	5-22.42		
Deep Zone		a/	+ 4.4
Semitropic Water Storage District	5-22.43		
Shallow Zone		a/	- 0.5
Deep Zone		a/	-12.9
Avenal-McKittrick Area	5-22.44	25	+ 1.6
Tulare Lake-Lost Hills Area	5-22.45	10	+36.6
Corcoran Irrigation District	5-22.46		
Shallow Zone		a/	+ 5.8
Deep Zone		a/	+24.4
Mendota-Huron Area	5-22.47		
Deep Zone		a/	- 0.9b/
Poso Soil Conservation District	5-22.48		
Deep Zone		a/	+ 1.7
San Luis Canal Company	5-22.49		
Deep Zone		a/	+ 1.3
Terra Bella Irrigation District	5-22.50	4	+ 5.3
Merced Bottoms	5-22.54		
Deep Zone		a/	- 0.8
Centerville Bottoms Area	5-22.64		
Deep Zone		a/	-11.0
Garfield Water District	5-22.65	19	- 3.8

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1965-- Spring 1966

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone		a/	- 0.8
Deep Zone		a/	- 0.2
Pleasant Valley Area	5-22.69	22	+ 1.2

a/ Average changes were determined by planimetering ground water contour maps.

b/ Average change determined from water level measurements made during December 1964 and December 1965.

TABLE C-2
CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1966
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51 ^{a/} in feet	Net change in water level 1951-66 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	- 16.6
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 20.3
Consolidated	243.0	Consolidated Irrigation District	- 19.0	- 1.6
Centerville Bottoms	18.1	-----	+ 1.0	- 3.8
Alta	190.9	Alta Irrigation District	- 17.2 ^{c/}	+ 0.4
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 18.0
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	- 11.5
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 14.8
Tulare	121.1	Tulare Irrigation District	- 59.1	- 1.4
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	- 9.8
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 59.5
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 24.7
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	- 0.4 ^{e/} - 6.6 ^{f/}
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 13.8 ^{e/} - 24.3 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 17.4 ^{e/} + 7.7 ^{f/}
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 8.9 ^{e/} - 17.0 ^{f/}
Rosedale	78.9	-----	- 36.3	- 73.9 - 16.5 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{d/}	- 22.8 ^{f/}

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

b/ Fall 1951 to spring 1966.

c/ Fall 1929 to fall 1951.

d/ Fall 1941 to fall 1951.

e/ Unconfined aquifer, spring 1961 to spring 1966, only one aquifer reported prior to 1961.

f/ Pressure surface, spring 1961 to spring 1966, only one aquifer reported prior to 1961.

g/ Pressure surface, spring 1963 to spring 1966, only one aquifer reported prior to 1963.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number Refer to the explanation under Introduction, page 169.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) as determined from U.S.G.S. topographic maps.

Date is the date the depth measurement was made.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well. Certain of the depth measurements in the column may be followed with an asterisk superscript to indicate a questionable measurement. Depth to ground water measurements may be questionable for such reasons as: (a) well being pumped while undergoing measurement, (b) nearby pump in operation, (c) existence of a leaking or wet casing, (d) well having been pumped recently, (e) possible air gage measurement error, (f) recharge operation at well or nearby. The specific reason for any asterisk on any given measurement may be obtained from the San Joaquin District Office of the Department of Water Resources.

Other code symbols used in this column are as follows:

☐ No measurement

Measurement discontinued

@ Well has been destroyed

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

The word DISCONTINUED indicates records from this well will no longer be published.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey
5001*	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5200	City of Fresno
5518	South San Joaquin Irrigation District
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5529	Poso Soil Conservation District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5700	Kern County Land Company

*A large amount of data listed under this agency code has been gathered by irrigation and water districts and compiled by the Bureau of Reclamation for transmittal to the Department of Water Resources.

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
OAKDALE IRRIGATION DISTRICT 5-22-06					
25/00E-24E01 M CONT.	192.0	8-01-66	□	78.3	5520
		10-06-65	59.7		
		10-15-64	51.0	81.0	
		12-03-65	50.8	81.2	
		1-04-66	50.5	81.5	
		2-01-66	50.9	81.1	
		3-03-66	51.3	80.7	
		4-01-66	52.8	79.2	
		5-03-66	56.6	75.4	
		5-31-66	54.8	77.2	
		8-01-66	□		
		8-02-66	□		
		9-01-66	□		
		7-06-65	76.8	108.7	5520
		8-02-65	76.9	108.6	
		9-01-66	76.7	108.8	
		10-06-65	76.1	109.4	
		10-15-65	74.8	110.7	
		12-03-65	74.5	111.0	
		1-04-66	74.0	111.5	
		2-01-66	73.0	111.6	
		3-03-66	73.8	111.7	
		4-01-66	74.5	111.0	
		5-03-66	75.8	109.7	
		5-31-66	□		
		7-01-66	□		
		8-02-66	□		
		9-01-66	□		
		4-28-66	57.7	107.3	5520
		7-06-65	94.6	123.4	
		8-02-65	94.6	123.4	
		9-01-65	94.7	123.3	
		10-06-65	93.5	124.5	
		10-15-65	91.6	126.4	
		12-02-65	91.0	127.0	
		1-04-66	90.0	128.0	
		2-01-66	89.6	128.4	
		3-03-66	89.2	128.8	
		4-01-66	90.7	127.3	
		5-03-66	91.4	126.6	
		5-31-66	92.6	125.4	
		7-01-66	94.8	123.2	
OAKDALE IRRIGATION DISTRICT 5-22-06					
25/11E-20001 M CONT.	218.0	8-02-66	96.9	121.1	5520
		9-01-66	98.2	119.8	
		4-28-66	74.6	117.4	5520
		4-28-66	41.3	108.7	5520
		7-06-65	49.9	102.1	
		8-02-65	51.3	100.7	
		10-01-65	47.9	104.1	
		10-15-65	48.3	103.7	
		12-02-65	47.1	104.9	
		1-04-66	45.9	104.1	
		2-01-66	45.7	106.3	
		3-03-66	45.3	106.7	
		4-01-66	□		
		5-03-66	46.3	105.7	
		5-31-66	□		
		7-01-66	51.2	100.8	
		8-02-66	□		
		9-01-66	55.4	96.6	
		2-00-66	53.2	108.8	5520
MODESTO IRRIGATION DISTRICT 5-22-07					
25/08E-24E01 M	94.0	3-01-66	32.9	61.1	5521
25/09E-30E01 M	93.0	3-24-66	28.5	64.5	5050
		5-04-66	25.9	67.1	
		6-03-66	27.9	65.1	
		7-07-66	28.6	64.4	
		8-02-66	29.3	63.7	
		9-02-66	29.7	63.3	
		3-01-66	32.2	68.1	5521
		3-24-66	8.1	39.9	5050
		5-04-66	6.0	41.0	
		6-03-66	7.6	39.4	
		7-07-66	7.2	38.6	
		8-02-66	8.3	38.7	
		9-01-66	7.4	39.6	
35/07E-35A02 M	40.0	3-24-66	6.5	33.5	5050

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MONFESTO IRRIGATION DISTRICT					
5-22+07					
✓ 35/09F-21A01 M	47.0	5-04-66	6.1	33.9	5050
		6-03-66	6.3	33.7	
		7-07-66	6.7	33.3	
		8-02-66	6.6	33.4	
		9-02-66	6.0	34.0	
✓ 35/09F-03A02 M	73.0	3-24-66	19.4	53.6	5050
		5-04-66	21.5	51.5	
		6-03-66	21.7	51.3	
		7-07-66	23.0	50.0	
		8-02-66	24.2	48.8	
		9-01-66	24.9	48.1	
✓ 35/09F-22C01 M	50.0	7-01-65	16.8	47.2	5050
		8-06-65	16.9	47.1	
		9-07-65	17.6	46.4	
		10-04-65	17.7	46.3	
		11-03-65	16.7	47.3	
		12-02-65	15.5	48.5	
		1-04-66	14.8	49.2	
		2-03-66	14.5	49.5	
		3-04-66	14.2	49.8	
		4-03-66	17.1	46.9	
		5-04-66	23.4	40.6	
		6-01-66	#		
✓ 35/09F-22C02 M	46.0	7-01-65	12.0	52.0	5050
		8-06-65	12.2	51.8	
		9-07-65	12.1	50.9	
		10-04-65	12.1	49.5	
		11-03-65	14.5	49.5	
		12-02-65	13.9	50.1	
		1-04-66	13.6	50.6	
		2-03-66	13.0	51.0	
		3-04-66	12.7	51.3	
		4-05-66	12.0	52.0	
		5-04-66	12.0	52.0	
		6-03-66	12.6	51.4	
		7-06-66	12.9	51.1	
		8-02-66	13.9	50.1	
		9-02-66	14.1	49.9	
✓ 35/09F-24C03 M	74.0	3-01-66	20.8	53.2	5521
✓ 35/09F-05A01 M	92.5	3-01-66	24.2	68.3	5521

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MONFESTO IRRIGATION DISTRICT					
5-22+07					
✓ 35/09F-21A01 M	99.2	3-01-66	37.5	61.7	5521
✓ 35/09F-26F01 M	100.0	5-04-66	41.6	58.4	5050
		6-01-66	41.5	58.5	
		8-01-66	41.9	58.1	
		9-02-66	42.4	57.6	
✓ 35/09F-30B01 M	82.5	3-01-66	#		5521
✓ 35/11F-04G01 M	133.1	3-01-66	32.7	100.4	5521
✓ 35/11F-20B01 M	119.2	3-01-66	45.3	73.9	5521
✓ 35/11F-32B01 M	123.0	3-01-66	56.5	66.5	5521
✓ 35/11F-33F01 M	120.0	5-04-66	58.9	61.1	5050
		6-01-66	59.2	60.8	
		7-06-66	57.5	62.5	
		8-01-66	58.5	61.5	
		9-02-66	57.5	62.5	
✓ 45/09F-03E01 M	63.0	3-01-66	15.9	47.1	5521
TIRICKY IRRIGATION DISTRICT					
5-22+08					
✓ 45/09F-22B01 M	55.0	5-04-66	7.8	47.2	5050
		6-01-66	8.0	47.0	
		7-01-66	8.5	46.5	
		8-02-66	8.5	46.5	
		9-01-66	8.2	46.8	
✓ 45/09F-27B01 M	55.0	3-02-66	10.0	45.0	5524
✓ 45/09F-21A02 M	82.0	3-03-66	DRY		5524
✓ 45/11F-21B01 M	109.0	3-02-66	7.1	101.9	5524
✓ 45/11F-21B02 M	109.0	3-00-66	#		5524
✓ 45/11F-29B01 M	131.0	3-02-66	DRY		5524
✓ 45/11F-32B01 M	130.0	3-00-66	#		5524
✓ 45/09F-01N01 M	53.0	3-02-66	5.6	47.4	5524

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TURLOCK IRRIGATION DISTRICT 5-22-08					
✓ 55109F-02001 M	50.0	3-00-66	#	64.9	5524
✓ 55109F-04001 M	70.0	8-04-65	5.0	65.0	5050
		9-07-65	5.0	65.0	
		10-04-65	5.4	64.6	
		11-03-65	4.2	63.8	
		12-02-65	5.2	64.8	
		1-04-66	6.0	64.0	
		2-03-66	6.0	64.0	
		3-03-66	6.2	63.8	
		4-03-66	4.2	65.8	
		5-04-66	3.4	66.6	
		6-02-66	6.7	63.3	
		7-07-66	9.8	60.2	
		8-02-66	7.5	62.5	
		9-07-66	6.4	63.6	
✓ 55109F-14001 M	75.0	3-02-66	6.1	68.9	5524
✓ 55109F-22001 M	43.0	3-00-66	#		5524
✓ 55109F-24001 M	75.0	3-02-66	6.1	68.9	5524
✓ 55109F-34001 M	64.0	6-02-66	16.0	48.0	5050
		7-02-66	15.7	48.3	
		8-02-66	17.7	46.3	
		9-07-66	16.1	47.9	
MERCED IRRIGATION DISTRICT					
✓ 55110F-21001 M	90.0	3-00-66	#		5524
✓ 55110F-21001 M	92.0	3-01-66	5.9	86.1	5524
✓ 55110F-06001 M	124.0	6-04-66	10.9	113.1	5050
		11-14-66	12.4	111.6	
		7-07-66	13.8	110.2	
		8-03-66	13.9	110.1	
		9-04-66	13.4	110.6	
✓ 55110F-21001 M	125.0	3-01-66	6.3	118.7	5524
✓ 55110F-20001 M	120.0	3-00-66	#		5524
✓ 55110F-31001 M	150.0	3-02-66	DPY		5524
✓ 55109F-15001 M	60.0	3-02-66	5.4	54.6	5524
TURLOCK IRRIGATION DISTRICT 5-22-08					
✓ 55110F-21A01 M	85.6	3-01-66	4.0	81.6	5524
✓ 55110F-21M01 M	94.0	3-00-66	#		5524
✓ 55110F-08001 M	115.0	3-01-66	11.3	103.7	5524
✓ 55110F-09001 M	118.0	3-02-66	7.4	110.6	5524
MERCED IRRIGATION DISTRICT 5-22-09					
✓ 55112F-21M02 M	143.8	3-00-66	@		5525
✓ 55114F-32A01 M	178.1	3-10-66	12.6	165.5	5525
✓ 55110F-01M01 M	90.7	3-11-66	8.0	81.8	5524
✓ 55110F-01M01 M	118.0	7-04-65	8.9	109.1	5050
		8-03-55	10.0	108.0	
		9-07-65	9.1	108.9	
		10-07-65	9.0	109.0	
		11-04-65	9.4	108.6	
		12-03-65	9.0	109.0	
		1-05-66	8.9	109.1	
		2-02-66	8.0	109.0	
		3-01-66	8.8	108.2	
		4-04-66	12.1*	106.9	
		5-03-66	13.3	104.7	
		7-02-66	13.7	104.4	
		8-02-66	14.7	103.4	
		9-01-66	14.9	103.1	
		9-01-66	15.5	102.5	
✓ 55110F-13M01 M	106.6	3-00-66	4.7	101.9	5524
✓ 55112F-12001 M	148.0	7-04-66	10.5	137.5	5050
		8-02-66	10.8	137.2	
		9-07-66	13.3	134.7	
✓ 55112F-12001 M	147.3	3-00-66	11.6	135.7	5525
✓ 55112F-16M01 M	151.9	3-00-66	11.1	140.8	5525
✓ 55112F-26M01 M	155.8	7-04-66	13.6	142.2	5050
		8-02-66	14.7	141.1	
		9-07-66	DPY		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA 5-22+11											
✓ 75/09E-26501 M	68+4	10-18-65	8+8	59+6	5050	105/10E-02R01 M	99+5	3-10-66	20+8	78+7	5050
		3-14-66	5+3	63+1		CONT.					
✓ 85/09E-01N01 M	123+2	10-15-65	17+4	105+8	5050	✓ 105/10E-11R01 M	106+6	10-19-65	22+2	84+4	5050
		3-17-66	24+0	99+2				3-10-66	22+2	84+4	
✓ 85/09E-15J01 M	172+8	10-15-65	64+9	107+9	5050	✓ 105/10E-31G01 M	191+1	10-13-65	159+6	31+5	5050
		3-17-66	60+7	112+1				3-10-66	156+8	34+3	
✓ 85/09E-26H01 M	75+0	10-18-65	47+9	27+1	5050	✓ 105/11E-23D01 M	99+0	10-18-65	6+2	92+8	5050
		3-14-66	14+8	60+2				3-15-66	6+7	92+5	
✓ 85/09E-26H03 M	75+0	10-18-65	7+4	67+6	5050	✓ 105/11E-27E02 M	101+3	10-18-65	57+9	43+4	5050
		3-14-66	1+4	73+6				3-15-66	54+4	46+9	
✓ 85/10E-21L04 M	75+0	10-18-65	8+3	66+7	5050	✓ 115/10E-11J01 M	157+3	10-15-65	54+0	103+3	5050
		3-14-66	2+5	72+5				3-11-66	□		
✓ 95/09E-13D01 M	201+6	10-00-65	□		5050	✓ 115/10E-22O01 M	246+8	10-15-65	130+6	116+2	5050
		3-00-66	□					3-11-66	130+6	116+2	
✓ 95/09E-18N01 M	153+6	10-20-65	37+2	116+4	5050	✓ 115/11E-02J02 M	106+0	10-18-65	2+0	104+0	5050
		3-18-66	39+5	114+1				3-14-66	3+0	103+0	
✓ 95/09E-23L01 M	100+0	10-20-65	65+3	34+7	5050	✓ 115/11E-22K01 M	114+2	10-14-65	1+4	112+8	5050
		3-18-66	41+4	58+6				3-10-66	2+9	111+3	
✓ 95/10E-19R01 M	94+0	10-20-65	3+6	80+4	5050	✓ 115/11E-27O03 M	110+0	10-14-65	12+5	106+5	5050
		3-15-66	— +5	84+5				3-10-66	9+9	109+1	
✓ 95/10E-23J01 M	87+0	10-20-65	55+8	31+2	5050	✓ 115/12E-31C01 M	132+0	10-14-65	28+2	103+4	5050
		3-15-66	38+4	48+6				3-14-66	23+6	108+4	
✓ 95/11E-14H01 M	91+0	10-19-65	7+1	83+9	5050	✓ 125/12E-04O01 M	138+0	10-28-65	4+0	134+0	5001
		3-17-66	8+3	82+7				5-02-66	□		
✓ 95/11E-20J01 M	90+5	10-19-65	40+6	49+9	5050	✓ 125/12E-16H05 M	168+0	10-19-65	132+5	35+5	5000
		3-17-66	40+3	50+2				2-14-66	135+8	32+2	
✓ 95/09E-06A01 M	147+0	10-19-65	8+8	138+2	5050	✓ 125/12E-25D01 M	177+0	10-08-65	63+8	113+2	5001
		3-09-66	7+8	139+2				5-05-66	64+5	112+5	
✓ 95/09E-06B01 M	147+0	10-10-65	76+0	90+1	5050	✓ 125/12E-25O02 M	177+0	10-08-65	10+0	167+0	5001
		3-09-66	78+3	88+7				5-06-66	9+3	167+0	
✓ 95/10E-02R01 M	99+5	10-19-65	21+4	78+1	5050	✓ 125/13E-10N01 M	144+0	10-08-65	3+2	140+8	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTAWATERWORKS AREA					
5-22-11					
125/13E-10001 M	144.0	5-05-66	3.5	140.5	5001
125/14E-30001 M	154.0	10-08-65	0		5001
CHRYCHILIA WATER DISTRICT					
5-22-12					
05/16E-25001 M	185.0	2-15-66	67.5	117.5	5001
05/16E-22007 M	216.5	7-28-65	□		5001
		8-25-65	□		
		9-30-65	114.3	102.2	
		10-28-65	107.0	109.5	
		12-01-65	94.9	121.5	
		12-21-65	90.5	126.5	
		1-26-66	83.6	132.9	
		2-24-66	83.0	133.5	
		3-24-66	90.3	117.2	
		4-27-66	□	108.5	
		5-24-66	□		
		6-28-66	□		
		7-24-66	□		
		8-24-66	□		
		9-20-66	119.8	96.7	
05/15E-25103 M	205.0	2-11-66	44.5	185.5	5001
05/15E-33001 M	205.0	7-28-65	36.3	168.7	5001
		8-25-65	41.3	169.7	
		9-30-65	31.7	171.3	
		10-28-65	34.0	171.0	
		12-01-65	32.2	172.8	
		1-26-66	33.0	172.0	
		1-29-66	32.0	173.0	
		2-24-66	31.0	173.1	
		3-24-66	31.7	173.3	
		4-27-66	50.4	154.6	
		5-24-66	64.3	140.7	
		6-28-66	54.7	150.3	
		6-29-66	#		
05/16E-22001 M	267.0	7-28-65	42.4	224.6	5001
		8-25-65	41.9	225.1	
		9-30-65	41.2	225.8	
		10-28-65	41.0	226.0	
		11-30-65	40.6	226.4	
CHRYCHILIA WATER DISTRICT					
5-22-12					
05/16E-22001 M	267.0	12-21-65	40.6	226.4	5001
		1-26-66	41.1	225.9	
		2-24-66	41.8	225.2	
		4-27-66	43.0	224.0	
		5-26-66	45.0	222.0	
		6-28-66	43.3	223.0	
		7-24-66	43.0	224.0	
		8-24-66	39.8	227.2	
		9-20-66	43.3	223.7	
05/17E-21101 M	320.0	2-08-66	136.5*	183.5	5001
05/17E-15101 M	320.0	2-04-66	84.5	235.5	5001
05/18E-33001 M	365.0	2-03-66	49.4	315.6	5001
05/14E-08003 M	147.0	7-27-65	86.5	60.5	5001
		8-24-65	87.7	59.3	
		10-01-65	84.3	62.7	
		10-27-65	81.3	65.7	
		12-01-65	75.0	72.0	
		12-21-65	75.2	71.7	
		1-26-66	71.5	77.3	
		2-24-66	69.7	69.0	
		3-24-66	76.0	68.2	
		4-27-66	81.2	65.8	
		5-26-66	88.6	58.6	
		6-28-66	92.1	50.7	
		8-24-66	93.2	53.8	
		9-20-66	90.8	56.2	
05/15E-23001 M	195.5	2-10-66	67.5	128.0	5001
05/15E-27003 M	184.0	7-27-65	□		5001
		8-24-65	□		
		10-01-65	72.5	111.5	
		10-27-65	60.0	114.1	
		12-01-65	72.5	111.5	
		12-20-65	79.4	104.6	
		1-26-66	66.1	117.9	
		2-24-66	60.5	114.5	
		3-25-66	68.0	116.0	
		4-27-66	74.5	103.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CHOWCHILLA WATER DISTRICT					
105/16F-27001 M	186.0	5-26-66	71.8	112.2	5001
		6-29-66	75.9	108.1	
		7-26-66	□		
		8-24-66	□		
		9-20-66	□		
✓105/16F-09001 M	272.0	7-27-65	91.2	140.8	5001
		8-24-65	93.0	139.0	
		10-01-65	82.4	149.6	
		10-27-65	81.9	150.1	
		11-30-65	72.5	159.5	
		12-20-65	73.6	158.4	
		1-27-66	71.6	160.5	
		2-24-66	70.9	163.2	
		3-21-66	83.1	148.2	
		4-27-66	91.7	140.3	
		5-24-66	□		
		6-28-66	□		
		7-26-66	99.8	132.2	
		8-24-66	100.2	131.8	
		9-20-66			
✓105/16F-20901 M	209.5	2-07-66	75.0	134.5	5001
MADEIRA IRRIGATION DISTRICT					
✓105/18F-20801 M	326.0	2-03-66	67.3	258.7	5001
✓105/19F-16001 M	387.0	7-03-66	14.1	372.9	5001
✓115/16F-06A01 M	196.0	7-27-65	74.3	121.7	5001
		8-24-65	74.6	121.4	
		10-01-65	72.7	123.3	
		10-27-65	71.2	124.8	
		11-30-65	68.8	127.2	
		12-20-65	70.0	126.0	
		1-26-66	65.5	130.5	
		2-25-66	66.6	129.4	
		3-25-66	66.6	129.4	
		4-25-66	68.7	127.3	
		5-23-66	71.2	124.8	
		6-27-66	73.5	122.5	
		7-25-66	76.2	119.8	
		8-29-66	79.5	116.5	
		9-22-66	85.9	110.1	
MADEIRA IRRIGATION DISTRICT					
✓115/17F-27001 M	250.0	1-24-66	75.4	174.6	5001
✓115/18F-20001 M	272.5	1-25-66	77.8	194.7	5001
✓115/18F-27001 M	284.0	7-29-65	82.9	201.1	5001
		8-26-65	83.0	201.1	
		10-01-65	82.5	201.5	
		10-28-65	82.5	201.5	
		11-30-65	82.0	202.0	
		12-21-65	89.7	200.3	
		1-27-66	81.2	202.8	
		2-25-66	81.7	202.3	
		3-28-66	90.5	193.5	
		4-25-66	89.0	195.0	
		5-23-66	91.7	192.3	
		6-27-66	98.0	186.0	
		7-25-66	98.2	185.8	
		8-29-66	94.4	189.6	
		9-22-66	97.8	186.2	
✓115/20F-22001 M	416.0	2-03-66	#		5001
✓125/16F-23A01 M	205.0	2-09-66	70.9	134.1	5001
✓125/17F-08001 M	230.0	7-27-65	87.7	142.3	5001
		8-26-65	88.3	141.7	
		9-29-65	86.4	143.6	
		10-27-65	83.5	146.5	
		11-30-65	81.5	148.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT 5-22-13					
125/17E-08G01 W CONT.	230.0	12-20-65	78.9	151.1	5.001
		1-27-66	78.0	152.0	
		2-25-66	78.6	151.4	
		4-25-66	94.1	135.9	
		4-25-66	87.3	147.7	
		5-23-66	83.9	146.1	
		6-27-66	86.4	143.6	
		7-25-66	87.7	142.3	
		8-29-66	90.1	138.9	
		9-22-66	90.9	138.1	
		7-27-65	□		5.001
		4-26-65	□		
		9-29-65	86.4	131.6	
		10-27-65	97.6	130.4	
		11-30-65	73.5	148.5	
		12-20-65	69.2	148.5	
		1-25-66	66.7	151.3	
		3-28-66	□		
		5-29-66	81.8*	136.2	
		6-29-66	86.9*	131.1	
		6-27-66	□		
		7-25-66	□		
		8-29-66	□		
		9-22-66	101.6	116.4	
		1-29-66	65.2	162.8	
		7-27-65	65.6	169.4	
		8-24-65	54.3	170.7	
		9-29-65	62.3	172.7	
		10-27-65	61.8	173.2	
		11-30-65	61.0	174.0	
		12-20-65	60.3	174.7	
		1-27-66	59.8	175.2	
		2-25-66	61.1	173.9	
		3-25-66	62.1	172.9	
		4-23-66	67.9	167.1	
		5-23-66	63.6	171.4	
		6-27-66	66.9	168.1	
		7-25-66	68.0	167.0	
		8-29-66	69.2	165.9	
		9-22-66	64.0	171.0	
		7-27-65	63.3	170.7	5.001
MADERA IRRIGATION DISTRICT 5-22-13					
125/17E-14D01 W CONT.	234.0	9-24-65	61.6	172.4	5.001
		9-29-65	59.1	175.9	
		10-27-65	57.6	176.4	
		11-30-65	55.5	177.5	
		12-20-65	55.3	178.7	
		1-27-66	53.6	180.4	
		2-25-66	54.5	179.5	
		3-26-66	57.9	176.1	
		4-25-66	□		
		5-21-66	□		
		6-27-66	74.5	159.5	
		7-25-66	81.2	152.8	
		8-29-66	62.5	171.5	
		9-22-66	60.5	173.6	
		7-27-65	80.4	207.6	5.001
		8-24-65	90.0	208.0	
		9-29-65	79.9	208.1	
		10-27-65	91.0	207.0	
		11-30-65	79.1	208.9	
		12-20-65	78.7	208.3	
		1-27-66	78.6	209.4	
		2-25-66	78.0	210.0	
		3-26-66	78.9	209.1	
		4-25-66	78.9	208.1	
		5-21-66	79.9	207.3	
		6-27-66	81.6	206.6	
		7-25-66	82.7	205.3	
		8-29-66	81.4	206.6	
		9-22-66	81.6	206.6	
		2-08-66	76.5	188.6	5.001
		7-27-65	77.4*	189.4	5.001
		8-24-65	77.6	189.4	
		9-29-65	77.0*	190.0	
		10-27-65	76.1	190.9	
		11-30-65	75.7	191.3	
		12-20-65	74.2	192.8	
		1-27-66	73.6	193.4	
		2-25-66	72.3*	194.1	
		3-26-66	72.6	194.4	
		4-25-66	73.4	193.6	
		5-23-66	75.0*	192.0	
		6-27-66	76.0*	191.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT					
5-22+13					
125/18F-21H01 M	267.0	7-25-65	76.9	199.1	5001
		8-29-66	77.7*	189.3	
		9-22-66	77.3	189.7	
✓125/19E-28A01 M	307.5	2-03-66	81.5	226.0	5001
WEST CHOWCHILLA-MADERA AREA					
5-22+14					
✓105/13E-22P01 M	119.0	2-09-66	24.2	94.8	5001
✓105/14F-01P01 M	177.0	2-09-66	63.9	113.1	5001
✓105/14E-31H01 M	130.0	7-27-65	29.9	100.1	5001
		8-24-65	30.6	99.4	
		10-01-65	30.5	99.5	
		10-27-65	30.5	99.5	
		12-01-65	31.4	98.6	
		12-20-65	32.4	97.6	
		1-26-66	32.8	97.2	
		2-24-66	32.8	97.2	
		3-25-66	30.2	99.8	
		4-27-66	30.9	99.1	
		5-26-66	36.0	94.0	
		6-28-66	35.0	95.0	
		7-26-66	34.2	95.8	
		8-24-66	34.4	95.6	
		9-20-66	34.9	95.1	
✓105/14F-35E01 M	151.0	7-27-65	81.0	70.0	5001
		8-25-65			
		10-01-65			
		10-27-65	78.3	72.7	
		12-01-65	73.8	77.2	
		12-20-65	73.9	77.1	
		1-26-66	64.9	86.1	
		2-24-66	62.9	88.1	
		3-25-66			
		4-27-66	73.9	77.1	
		5-26-66			
		6-28-66			
		7-26-66			
		8-24-66			
		9-20-66	88.9	62.1	
✓115/14E-33L01 M	135.0	7-27-65			5001
WEST CHOWCHILLA MADERA AREA					
5-22+14					
115/14E-33L01 M	135.0	8-24-65			5001
		10-21-65			
		10-27-65	13.6	121.4	
		12-01-65	15.7	121.3	
		12-20-65	15.6	119.3	
		1-27-66	12.6	122.4	
		2-24-66	15.4	119.6	
		3-25-66	16.1	118.9	
		4-28-66			
		5-26-66			
		6-28-66			
		7-26-66			
		8-25-66			
		9-20-66	19.3	115.7	
✓115/15E-33E01 M	158.0	2-11-66			5001
✓115/15E-33P01 M	158.0	7-27-65	62.0	96.0	5001
		8-24-65	56.3	101.7	
		10-01-65			
		10-27-65			
		12-01-65	43.6	114.4	
		12-20-65	43.6	114.4	
		1-26-66	40.6	117.4	
		2-24-66	40.4	117.6	
		3-25-66	61.7	96.3	
		4-28-66	53.5	104.5	
		5-26-66	50.3	98.7	
		6-28-66	63.8	94.2	
		7-27-66	61.1	96.9	
		8-25-66	63.2	92.8	
		9-21-66	52.3	105.8	
✓125/14E-25H01 M	150.0	7-27-65			5001
		8-24-65			
		10-01-65	17.6	132.4	
		10-27-65	16.7	133.3	
		12-01-65	16.5	132.9	
		12-20-65	18.5	132.1	
		1-27-66	13.9	133.1	
		3-25-66	16.7	133.2	
		4-28-66	23.4	124.0	
		5-27-66			
		6-29-66			

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST (HOWCHILLA) MANERA ADFA 5-22-14						
125/16F-25H(1) M	150.0		7-27-66	0	150.0	5001
			8-25-66	0	129.1	
			9-20-66	20.9		
✓125/15E-14(L) M	165.1		2-11-66	43.2	121.8	5001
✓125/16F-02(F) M	198.0		7-27-66	79.9	118.1	5001
			8-24-66	79.7	114.3	
			9-29-66	72.5	121.5	
			10-27-66	0		
			11-30-66	0		
			12-20-66	61.0	139.0	
			1-27-66	57.6	134.1	
			2-25-66	58.9	135.1	
			3-25-66	66.0	128.0	
			4-25-66	72.9	131.1	
			5-23-66	65.3	128.7	
			6-27-66	78.1	126.2	
			7-25-66	88.4	125.4	
			8-29-66	80.4	113.6	
			9-22-66	74.5	119.4	
EPPEN (IRRIGATION) DISTRICT 5-22-15						
125/20E-14(B) M	365.0		2-00-66	0		5001
125/21E-24 (1) M	387.7		7-20-66	61.1	326.6	5631
			8-31-66	59.8	328.9	
			9-30-66	59.2	328.5	
			10-28-66	57.7	330.0	
			11-28-66	57.3	330.4	
			12-29-66	65.0	327.7	
			1-24-66	55.7	332.0	
			2-25-66	54.7	333.0	
			3-25-66	56.3	331.4	
			4-28-66	55.5	332.2	
			5-26-66	56.4	331.9	
			6-27-66	56.4	331.1	
			7-26-66	65.7	322.0	
			8-26-66	65.7	323.2	
			9-29-66	64.5	323.2	
125/22E-21(F) M	473.0		2-00-66	18.3	454.7	5001
135/17E-22(P) M	220.8		7-30-66	30.4	181.4	5631
WEST (IRRIGATION) DISTRICT 5-22-15						
135/17E-22(R) M	220.8		8-31-66	39.0	181.8	5631
			9-30-66	37.4	183.4	
			10-27-66	38.3	182.5	
			11-27-66	40.1	180.7	
			12-27-66	39.2	181.6	
			1-25-66	39.5	181.3	
			2-21-66	37.7	183.1	
			3-24-66	40.4	180.4	
			4-25-66	40.4	180.2	
			5-24-66	37.1	183.7	
			6-27-66	37.2	183.4	
			7-27-66	37.9	182.9	
			8-24-66	39.0	181.8	
			9-27-66	38.4	182.4	
135/17E-33(O) M	211.0		7-26-66	60.0	151.0	5001
			8-23-66	59.9	151.1	
			10-04-66	53.6	157.4	
			10-26-66	53.8	157.2	
			11-30-66	51.9	159.1	
			12-21-66	50.8	160.2	
			1-24-66	49.7	160.7	
			2-22-66	50.7	161.3	
			3-24-66	56.4	154.5	
			4-26-66	53.6	157.4	
			5-24-66	58.4	152.4	
			7-26-66	57.6	153.4	
			8-23-66	63.6	147.4	
			9-19-66	63.6	147.4	
135/18E-10(O) M	248.0		7-26-66	54.5	203.5	5001
			8-23-66	50.4	207.6	
			10-04-66	50.9	207.1	
			10-26-66	52.2	205.8	
			11-30-66	54.0	204.0	
			12-21-66	52.5	205.5	
			1-28-66	51.0	207.0	
			2-23-66	53.9	204.1	
			3-22-66	51.5	206.5	
			4-26-66	50.8	207.2	
			5-24-66	50.3	207.7	
			6-27-66	50.4	207.6	
			7-25-66	51.0	207.0	
			8-23-66	51.0	207.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT											
5-22-15											
135/19E-10001 W	288.0	9-19-66	53.5	204.5	5001	135/19E-14001 W	200.0	4-24-66	76.7	215.8	5001
CONT.											
135/19E-16001 W	283.0	2-08-66	63.3	189.7	5001	135/19E-14001 W	200.0	5-24-66	73.7	216.3	
135/19E-34001 W	245.0	7-26-65	60.7	184.3	5001			6-27-66	□		
		10-02-65	59.3	185.4				8-23-66	16.5	213.5	
		11-20-65	61.0	184.0				9-19-66	17.5	212.5	
		12-31-65	65.0	180.0							
		1-28-66	59.4	185.6							
		2-23-66	60.4	184.6							
		3-22-66	59.5	185.5							
		4-24-66	58.8	184.2							
		5-24-66	58.6	184.4							
		6-27-66	58.1	186.9							
		7-25-66	57.7	187.3							
		8-23-66	62.9	182.1							
		9-19-66	60.4	184.6							
FRESNO IRRIGATION DISTRICT											
5-22-15											
135/19E-09001 W	288.2	7-30-65	65.5	222.7	5631	135/20E-21001 W	336.7	7-30-65	82.3	254.4	5631
		8-31-65	65.5	222.7				8-31-65	82.8	253.9	
		9-30-65	65.5	222.7				9-30-65	83.0	253.9	
		10-25-65	67.5	220.7				10-27-65	83.0	253.9	
		11-26-65	66.9	221.3				11-28-65	83.9	252.8	
		12-27-65	66.8	221.4				12-29-65	83.4	253.4	
		1-22-66	66.6	222.0				1-24-66	86.3	252.4	
		2-21-66	66.2	222.6				2-25-66	86.3	252.4	
		3-23-66	65.8	222.4				3-25-66	83.3	253.4	
		4-25-66	65.1	223.1				4-27-66	83.3	253.4	
		5-24-66	64.8	223.4				5-25-66	85.5	251.2	
		6-27-66	64.7	223.5				6-29-66	88.7	248.0	
		7-27-66	66.1	222.1				7-26-66	85.5	251.2	
		8-23-66	66.1	222.1				8-26-66	85.9	250.8	
		9-27-66	66.5	221.7				9-29-66	86.2	250.5	
FRESNO IRRIGATION DISTRICT											
5-22-15											
135/19E-16001 W	280.0	7-27-65	82.5	207.5	5001	135/21E-23001 W	364.0	7-30-65	27.1	336.9	5631
		8-23-65	74.5	215.5				8-31-65	26.1	337.9	
		10-04-65	74.4	215.6				9-30-65	23.7	340.3	
		10-26-65	74.6	215.4				10-27-65	28.3	338.7	
		11-30-65	79.5	215.6				11-28-65	28.3	338.8	
		12-21-65	79.5	215.6				12-29-65	26.2	337.8	
		2-23-66	74.5	215.7				1-24-66	27.2	336.8	
		3-21-66	74.5	215.7				2-25-66	25.6	338.4	
		4-22-66	74.0	216.0				3-25-66	25.6	338.4	
								4-28-66	27.0	337.4	
								5-26-66	21.8	342.2	
								6-29-66	22.1	341.9	
								7-26-66	23.2	340.8	
								8-26-66	31.7	337.8	
								9-30-66	□		
FRESNO IRRIGATION DISTRICT											
5-22-15											
135/19E-16001 W	280.0	3-25-66	78.3	209.7	5631	135/21E-23001 W	364.0	3-25-66	28.3	339.2	5631
		8-31-65	72.1	215.9				8-31-65	28.3	339.2	
		9-30-65	71.5	215.9				9-30-65	28.3	339.2	
		10-30-65	67.8	215.9				10-30-65	28.3	339.2	
		10-30-65	76.5	215.9				10-30-65	28.3	339.2	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRFSNO IRRIGATION DISTRICT 5-22-15					
145/18F-08J01 W CONT.	277.4	11-27-65	70.3	157.1	5631
		12-28-65	64.0	163.4	
		1-25-66	72.0	155.4	
		2-23-66	66.2	161.2	
		3-24-66	□		
		4-26-66	□		
		5-25-66	71.2	156.2	
		6-28-66	68.9	158.5	
		7-28-66	70.9	156.5	
		9-28-66	71.9	155.9	
145/18F-20R02 W	247.2	7-30-65	55.2	192.0	5631
		8-31-65	55.2	192.0	
		9-30-65	55.0	192.2	
		10-25-65	57.3	189.9	
		11-27-65	58.2	189.0	
		12-29-65	56.8	190.4	
		1-22-66	56.4	190.8	
		2-24-66	53.3	193.9	
		3-28-66	64.6	182.6	
		4-27-66	53.9	193.3	
		5-27-66	56.6	190.6	
		6-29-66	54.8	192.4	
		7-25-66	54.8	192.4	
		8-25-66	56.3	190.9	
		9-27-66	57.8	189.4	
145/20F-06J01 W	279.4	7-30-65	68.8	210.6	5631
		8-31-65	69.5	209.9	
		9-30-65	68.0	211.4	
		10-25-65	67.6	211.8	
		11-27-65	65.0	216.4	
		12-29-65	64.6	216.8	
		1-21-66	64.5	216.9	
		2-22-66	62.6	217.0	
		3-25-66	66.0	213.4	
		4-27-66	67.7	211.7	
		6-27-66	65.1	211.9	
		7-24-66	69.2	211.2	
		8-24-66	70.8	208.8	
		9-29-66	71.3	208.1	
145/21F-14A01 W	334.0	7-30-65	46.6	287.4	5631
FRFSNO IRRIGATION DISTRICT 5-22-15					
145/21F-14A01 W CONT.	334.0	8-31-65	46.2	287.8	5631
		9-30-65	45.6	288.4	
		10-27-65	45.0	289.0	
		11-29-65	44.7	290.0	
		12-29-65	43.7	290.8	
		1-24-66	42.7	291.3	
		2-24-66	42.0	292.0	
		3-28-66	□		
		4-28-66	□		
		5-26-66	42.7*	291.3	
		6-28-66	46.4	287.6	
		7-26-66	45.8	288.2	
		8-29-66	46.4	287.6	
		9-29-66	49.0	285.0	
145/22F-01G01 W	397.0	7-30-65	39.7	357.3	5631
		8-31-65	39.0	357.1	
		9-30-65	40.1	356.9	
		10-27-65	41.0	356.0	
		11-29-65	40.3	356.7	
		12-29-65	43.6	353.4	
		1-24-66	40.0	357.0	
		2-25-66	39.7	357.3	
		3-28-66	38.9	358.1	
		4-28-66	38.6	358.4	
		5-26-66	□		
		6-29-66	38.2	358.8	
		7-26-66	39.1	357.9	
		8-29-66	41.5	355.5	
		9-29-66	40.9	356.1	
145/20F-13F02 W	282.5	7-30-65	39.6	242.9	5631
		8-31-65	38.7	243.8	
		9-30-65	38.1	244.4	
		10-29-65	40.6	241.9	
		11-27-65	38.8	243.7	
		12-28-65	39.3	243.2	
		1-26-66	39.7	242.8	
		2-24-66	40.1	242.4	
		3-28-66	40.6	241.9	
		4-27-66	42.3	240.2	
		5-26-66	39.8	242.6	
		6-29-66	40.5	242.0	
		8-29-66	38.5	245.0	
		9-29-66	39.4	243.4	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT											
5-22-15											
155/20E-15E02 M	282.5	9-30-66	40.0	242.5	5631	135/20E-35H02 M	305.3	12-30-65	85.9	219.4	5200
CITY OF FRESNO											
5-22-16											
135/20E-71J01 M	310.0	3-30-66	88.8	221.2	5200	145/20E-10M01 M	291.4	7-29-65	87.4	204.0	5200
135/20E-28H01 M	325.0	7-01-65	94.6	230.4	5200			9-11-65	90.4	201.0	
		7-29-65	94.8	230.2				9-27-65	89.9	203.5	
		9-02-65	95.7	229.3				10-27-65	84.9	206.5	
		9-29-65	90.0	235.0				11-30-65	79.4	212.0	
		10-28-65	93.8	231.2				12-29-65	80.3	211.1	
		11-29-65	92.5	232.5				1-26-66	79.0	212.4	
		12-30-65	92.2	232.8				2-23-66	77.9	213.5	
		1-26-66	91.3	233.7				3-30-66	79.9	211.5	
		2-21-66	91.0	234.0				4-28-66	81.5	209.9	
		3-29-66	92.2	231.8				5-26-66	84.4	207.0	
		4-26-66	93.2	229.1				6-29-66	87.3	204.1	
		5-26-66	93.2	229.1				7-27-66	87.7	203.7	
		6-29-66	97.9	227.1				9-02-66	89.0	202.4	
		8-03-66	97.9	227.1				9-28-66	87.7	203.7	
		9-02-66	97.0	226.0							
		9-28-66	98.1	226.9							
135/20E-28E01 M	299.3	7-28-65	86.3	213.0	5200	FRESNO SLOUGH AREA					
		9-01-65	87.9	211.4		135/15E-28H01 M	162.0	2-10-66	32.0	130.0	5001
		9-30-65	87.3	212.0		135/15E-35D02 M	165.5	7-26-65	73.0	92.5	5001
		10-28-65	86.0	213.3				8-23-65	69.5	96.0	
		11-29-65	84.5	214.8				10-04-65	54.1	111.4	
		12-28-65	83.3	216.0				10-26-65	47.2	118.3	
		2-21-66	82.9	216.4				11-30-65	37.9	127.6	
		3-29-66	83.3	216.0				12-21-65	36.5	129.0	
		4-27-66	84.5	214.8				1-27-66	31.3	134.2	
		5-25-66	86.0	213.3				2-23-66	32.7	132.8	
		6-29-66	87.6	208.7				3-22-66	61.6	103.9	
		7-27-66	90.6	208.3				4-26-66	61.1	104.4	
		9-02-66	91.0	208.3				5-24-66	64.0	101.5	
		9-28-66	91.0	208.3				6-27-66	72.5	93.0	
		7-01-65	88.4	216.9	5200			7-25-66	77.7	87.8	
		7-28-65	89.6	215.7				8-23-66	73.6	91.9	
		9-02-65	89.9	215.4							
		10-01-65	88.8	216.5							
		10-29-65	88.7	216.6							
		11-30-65	87.8	217.5							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA					
5-22-17					
145/16E-03C01 M	177.0	6-27-66	58.7	118.3	5001
CONT.					
145/16E-08D01 M	145.0	7-24-65	51.0*	119.0	5001
		8-23-66	63.0	114.0	
		9-19-66	59.2	117.8	
		10-01-65	18.3	186.7	
		10-26-65	18.4	187.0	
		11-30-65	18.0	187.0	
		12-21-65	17.8	187.2	
		1-27-66	17.4	187.4	
		2-23-66	17.3	187.7	
		3-22-66	18.5	186.5	
		4-26-66	18.5	186.5	
		5-24-66	19.4	185.6	
		6-27-66	19.0	186.0	
		7-25-66	19.6	185.4	
		8-23-66	19.6	185.4	
		9-19-66	20.4	184.6	
		10-04-65	27.9	182.1	
		10-26-65	26.5	183.5	
		11-30-65	20.8	189.2	
		1-28-66	20.4	189.6	
		2-23-66	20.2	189.8	
		3-22-66	24.9	185.1	
		4-26-66	27.2	182.8	
		5-24-66	27.3	182.7	
		6-27-66	27.4	182.6	
		7-25-66	29.3	181.7	
		8-23-66	33.6	176.4	
		9-19-66	30.0	180.0	
		10-04-65	55.5*	121.5	5001
FRESNO SLOUGH AREA					
5-22-17					
145/17E-25A01 M	177.0	7-26-65	53.0	124.0	5001
CONT.					
145/17E-01L01 M	171.0	7-26-65	32.9	138.1	5001
145/17E-25A01 M	171.0	8-23-66	32.9	138.1	5001
145/17E-01L01 M	169.5	10-04-65	32.7	136.8	5001
145/16E-12C03 M	169.5	10-26-65	33.0	136.5	5001
		11-30-65	30.5	139.0	
		12-21-65	30.4	139.1	
		1-27-66	31.5	138.0	
		2-23-66	31.5	138.0	
		3-22-66	31.0	138.5	
		4-26-66	33.0	136.5	
		5-24-66	32.9	136.6	
		6-27-66	33.5	136.0	
		7-25-66	34.0	135.5	
		8-23-66	33.5	136.0	
		9-19-66	34.5	135.0	
145/17E-22D01 M	187.0	7-07-66	85.8	101.2	5001
145/17E-35N02 M	182.0	7-26-65	97.4	84.6	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EPF5NO S(L)UGH AREA											
155/17E-35N02 M	182*0	8-23-65	100*0	82*0	5001	165/18E-03J01 M	206*0	3-01-66	101*3	104*7	5050
		10-04-65	96*8	85*2		CONT.		3-29-66	114*4	91*6	
		10-26-65	93*8	89*2				5-02-66	□		
		11-30-65	91*4	90*6				5-27-66	120*4	85*6	
		12-21-65	89*4	92*6				7-01-66	□		
		1-28-66	98*3	93*7				7-29-66	□		
		2-23-66	91*0	91*0				9-02-66	123*5	82*5	
		3-22-66	98*0	84*0							
		4-26-66	93*2	88*8				2-08-66	95*4	102*4	5050
		5-24-66	95*2	86*8							
		6-27-66	98*0	84*0				7-29-65	100*0	91*0	5050
		7-25-66	104*5	77*5				8-30-65	119*0	72*0	
		8-23-66	108*2	73*8				10-01-65	142*8*	48*2	
		9-19-66	107*8	74*2				11-02-65	108*3	82*7	
								11-30-65	102*4	88*4	
								12-28-65	98*7	91*3	
155/18E-07A02 M	204*0	7-26-65	103*6	100*4	5001	165/18E-27C01 M	198*0	1-28-66	104*3	86*7	
		8-23-65	106*8	97*2				3-01-66	130*6	50*4	
		10-04-65	105*7	98*3				3-29-66	150*8	40*2	
		10-26-65	106*6	97*4				5-02-66	128*0	62*0	
		11-30-65	100*7	103*3				5-27-66	143*7	47*3	
		12-21-65	98*4	105*6				7-01-66	134*0	57*0	
		1-28-66	94*8	109*2				7-02-66	#		
		2-23-66	93*0	111*0							
		3-22-66	95*3	108*7				7-29-65	□		5050
		4-26-66	102*0	102*0				8-30-65	122*0	99*0	
		5-24-66	103*9	100*1				10-01-65	127*0	123*0	
		5-27-66	108*9	95*2				11-02-65	96*4	125*6	
		8-23-66	113*2	90*8				12-28-65	93*9	124*1	
		9-19-66	114*9	89*1				1-28-66	93*0	127*0	
								3-01-66	93*7	126*3	
155/18E-16G01 M	205*8	2-08-66	97*9	107*9	5001	165/19E-34P01 M	220*0				
155/19E-29C01 M	227*3	10-30-65	112*9	114*4	5631			5-02-66	□		
		2-24-66	103*6	123*7				5-27-66	□		
165/17E-23N01 M	185*0	2-09-66	107*8	77*2	5001			7-01-66	109*0	111*0	
165/18E-03J01 M	204*0	7-29-65	□		5050	175/17E-12H01 M	199*0	9-02-66	108*0	111*0	
		8-30-65	□					2-08-66	132*5	46*5	5050
		10-01-65	118*3*	87*7				2-08-66	65*2	134*8	5050
		11-02-65	106*3	99*7							
		11-30-65	103*0	103*0							
		12-28-65	102*0	104*0							
		1-28-66	101*3	104*7							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT 5-22-18					
14S722F-22N01 W	355.7	8-06-65	33.4	322.3	5.636
		9-30-65	31.4	324.3	
		11-01-65	32.2	323.5	
		11-29-65	31.2	324.5	
		12-29-65	30.9	324.8	
		1-29-66	32.2	323.5	
		3-04-66	33.2	322.5	
		4-01-66	33.1	322.7	
		4-28-66	33.7	322.0	
		5-31-66	32.0	323.7	
		7-02-66	31.8	323.9	
		8-01-66	31.8	323.9	
		9-01-66	33.1	322.6	
15S719F-24N01 W	246.6	8-06-65	90.2	156.4	5.636
		9-30-65	88.7	157.9	
		11-01-65	86.9	159.7	
		11-29-65	87.7	158.9	
		12-29-65	84.2	162.4	
		1-30-66	81.3	163.3	
		1-29-66	81.0	163.6	
		3-04-66	80.9	163.7	
		4-01-66	84.7	161.9	
		4-28-66	84.9	161.7	
		5-31-66	88.2	158.4	
		7-02-66	92.4	154.2	
		8-01-66	94.8	151.8	
		9-01-66	95.0	151.6	
15S720F-28N01 W	244.8	8-06-65	62.1	202.7	5.636
		9-30-65	59.8	205.0	
		11-01-65	57.2	207.6	
		11-29-65	54.2	210.6	
		1-30-66	54.9	209.9	
		1-29-66	56.4	208.4	
		3-04-66	54.7	210.1	
		4-01-66	59.3	205.5	
		4-28-66	60.0	204.8	
		5-31-66	59.3	205.5	
		7-02-66	61.7	203.1	
		8-01-66	61.9	202.9	
		9-01-66	60.6	204.2	
15S721E-15D01 W	301.0	8-06-65	38.0	263.0	5.636
CONSOLIDATED IRRIGATION DISTRICT 5-22-18					
15S721E-15D01 W	301.0	8-30-65	37.4	263.6	5.636
		9-30-65	36.4	264.6	
		11-01-65	36.4	264.6	
		11-29-65	37.0	264.0	
		12-29-65	36.7	264.3	
		1-29-66	34.2	266.8	
		3-04-66	34.3	266.7	
		4-01-66	34.5	266.5	
		4-28-66	34.7	266.3	
		5-31-66	36.2	264.8	
		7-02-66	36.2	264.8	
		8-01-66	38.2	262.8	
		9-01-66	38.4	262.6	
15S722F-16A01 W	337.0	8-06-65	34.6	302.4	5.636
		9-30-65	32.4	304.6	
		11-01-65	32.6	304.4	
		11-29-65	38.2	298.8	
		1-30-66	33.2	303.8	
		1-29-66	33.7	303.3	
		3-04-66	33.7	303.3	
		4-01-66	34.2	302.8	
		4-28-66	34.0	303.1	
		5-31-66	35.4	301.6	
		7-02-66	35.0	302.0	
		8-01-66	35.1	301.9	
		9-01-66	35.1	301.9	
15S722F-29D01 W	321.9	8-06-65	38.6	283.3	5.636
		9-30-65	38.0	283.9	
		11-01-65	35.1	286.8	
		11-29-65	34.9	287.0	
		1-2-66	36.8	285.1	
		1-29-66	36.8	285.1	
		3-04-66	38.0	283.9	
		4-01-66	38.8	283.1	
		4-28-66	39.1	282.8	
		5-31-66	39.9	282.0	
		7-02-66	38.8	283.1	
		8-01-66	38.8	283.1	
		9-01-66	38.6	283.3	
16S719E-14A01 W	245.5	8-06-65	94.1	141.4	5.636

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT 5-22-18					
16S/19E-14A01 M	295.5	8-30-65	93.1	142.4	5636
		9-30-65	90.4	145.1	
		11-01-65	90.0	145.5	
		11-29-65	87.7	147.8	
		12-30-65	85.0	147.7	
		1-29-66	85.0	150.5	
		3-04-66	85.0	150.5	
		4-01-66	88.1	147.4	
		4-28-66	86.4	147.1	
		5-31-66	96.3	139.8	
		8-01-66	98.0	137.5	
		9-01-66	98.3	137.2	
16S/20E-22N01 M	247.7	8-06-65	69.9	177.8	5636
		9-30-65	70.9	176.8	
		11-01-65	68.2	179.5	
		11-29-65	68.0	179.7	
		12-30-65	66.6	181.1	
		1-29-66	66.0	181.7	
		3-04-66	66.3	181.4	
		4-01-66	67.2	180.5	
		4-28-66	68.3	179.4	
		5-31-66	70.7	177.0	
		7-02-66	71.0	176.7	
		8-01-66	71.9	175.8	
		9-01-66	72.0	175.7	
16S/21E-22N01 M	271.7	8-06-65	64.6	215.1	5636
		9-30-65	56.0	215.7	
		9-30-65	54.0	217.7	
		11-01-65	54.0	217.7	
		11-29-65	52.8	218.9	
		12-30-65	52.4	219.1	
		1-29-66	50.9	220.8	
		3-04-66	48.7	223.0	
		4-01-66	51.3	220.4	
		4-28-66	53.0	218.7	
		5-31-66	54.6	217.1	
		7-02-66	57.4	214.3	
		8-01-66	58.1	213.6	
		9-01-66	57.1	214.6	
16S/22E-23R01 M	297.5	8-06-65	29.2	268.3	5636
		9-30-65	29.2	268.3	
		11-01-65	28.7	268.6	
		11-29-65	28.7	268.8	
		12-30-65	28.4	268.1	
		1-29-66	28.4	269.1	
		4-01-66	29.1	268.1	
		4-28-66	28.4	269.1	
		5-31-66	29.6	267.9	
		7-02-66	20.5	268.0	
		8-01-66	30.6	266.9	
		9-01-66	29.6	267.9	
17S/22E-03C01 M	286.0	8-06-65	20.6	265.4	5636
		9-30-65	23.3	262.7	
		9-30-65	24.8	261.2	
		11-01-65	26.0	260.0	
		11-29-65	26.3	259.7	
		12-30-65	26.7	259.3	
		1-29-66	26.3	259.7	
		3-04-66	26.6	259.4	
		4-01-66	26.1	259.9	
		4-28-66	20.9	256.1	
		5-31-66	26.1	259.9	
		7-02-66	23.2	262.8	
		8-01-66	23.8	262.2	
		9-01-66	25.8	260.2	
CONSOLIDATED IRRIGATION DISTRICT 5-22-19					
14S/23E-36R01 M	301.0	8-02-65	43.6	347.4	5637
		8-25-65	41.6	349.4	
		9-28-65	49.9	341.1	
		1-0-28-65	53.7	337.3	
		11-26-65	53.7	337.3	
		12-31-65	53.2	337.8	
		1-28-66	53.1	337.9	
		2-25-66	51.8	339.2	
		3-29-66	59.8	331.2	
		4-28-66	68.4	325.5	
		5-31-66	68.4	325.5	
		7-02-66	57.2	340.8	
		8-24-66	46.4	344.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT					
5-22-19					
145/23E-34P01 W	301.0	9-29-66	66.1	324.9	5637
CONT.					
145/24E-31P01 W	395.0	1-28-66	49.9	345.1	5001
145/24E-23A02 W					
8-02-65	48.1	309.9	5637		
8-25-65	47.8	309.2			
9-29-65	50.0	308.0			
10-28-65	47.6	310.4			
11-26-65	49.1	310.0			
12-28-65	47.1	310.9			
2-25-66	47.1	310.9			
3-29-66	46.4	311.6			
4-28-66	54.8	303.2			
5-30-66	53.8	304.2			
6-29-66	□				
7-28-66	49.0	308.1			
8-30-66	57.4	300.6			
9-29-66	55.1	302.0			
145/24E-22P01 W					
7-30-65	311.0	354.1	5637		
8-23-65	28.1	359.9			
9-28-65	38.6	349.4			
10-29-65	41.6	346.4			
11-29-65	42.5	345.5			
12-30-65	42.0	346.0			
1-29-66	46.7	347.3			
2-26-66	38.9	348.1			
3-30-66	42.7	345.3			
4-29-66	44.5	343.5			
5-31-66	36.9	341.1			
6-30-66	31.7	336.3			
7-29-66	25.8	341.2			
8-31-66	45.2	347.8			
9-30-66	43.0	345.0			
7-29-65	32.6	281.4	5637		
8-27-65	26.6	284.6			
9-27-65	38.1	283.0			
10-27-65	29.1	283.9			
11-27-65	28.9	285.1			
1-27-66	28.5	285.1			
1-27-66	28.3	285.7			
2-24-66	29.4	284.6			
3-28-66	30.4	283.5			
ALTA IRRIGATION DISTRICT					
5-22-19					
145/24E-23E01 W	314.0	4-28-66	31.1	282.9	5637
CONT.					
4-27-66	31.3	280.7			
6-28-66	31.6	282.4			
7-27-66	32.3	281.7			
8-29-66	31.2	282.9			
9-28-66	30.9	283.1			
145/24E-21J01 W					
7-28-65	34.5	209.5	5637		
8-27-65	37.3	208.2			
9-27-65	34.2	202.8			
10-27-65	34.5	201.8			
11-27-65	34.5	201.5			
12-28-65	34.1	201.0			
1-28-66	34.2	201.8			
2-24-66	34.0	202.0			
3-24-66	37.3	208.7			
4-27-66	43.0	203.0			
5-26-66	□				
6-27-66	□				
7-28-66	38.0	208.0			
8-26-66	41.9	204.1			
9-27-66	41.4	204.6			
145/24E-29A01 W					
7-28-65	56.5	307.5	5637		
8-27-65	46.5	317.5			
9-27-65	52.5	311.5			
10-26-65	52.5	311.5			
11-24-65	51.9	312.1			
12-28-65	50.3	313.7			
1-28-66	49.2	314.8			
2-28-66	47.8	316.2			
3-24-66	54.0	310.0			
4-27-66	□				
5-27-66	53.7	310.3			
6-27-66	51.6	312.4			
7-26-66	51.6	312.4			
8-26-66	□				
9-29-66	□				
145/24E-25A01 W					
7-29-65	275.0	5637			
8-26-65	□				
9-29-65	46.7	228.3			
10-27-65	46.2	228.8			
11-27-65	39.8	235.2			
12-30-65	36.4	238.6			

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT					
5-22-19					
175/22E-25A01 M	275.0	1-27-66	36.4	240.6	5637
CONT.		2-24-66	32.6	242.4	
		4-28-66	35.5	239.5	
		5-29-66	47.5	227.5	
		7-28-66	□		
		7-27-66	□		
		8-20-64	□		
		8-28-64	□		
175/22E-25J01 M	275.0	7-29-65	41.2	233.8	5637
		8-24-65	42.9	232.1	
		9-29-65	4.1	231.0	
		10-27-65	41.8	233.2	
		11-27-65	39.3	235.7	
		12-30-65	37.5	237.5	
		1-27-66	36.4	238.6	
		2-24-66	35.7	239.3	
		3-28-66	37.3	237.7	
		4-28-66	40.3	234.7	
		5-27-66	42.1	232.9	
		6-28-66	43.5	231.5	
		7-27-66	□		
		8-29-66	□		
		9-28-66	45.8	229.2	
175/24E-15A03 M	302.0	7-28-65	50.4	251.6	5001
		8-23-65	48.6	253.4	
		9-23-65	48.7	253.3	
		10-25-65	49.6	252.4	
		11-22-65	41.4	260.6	
		12-20-65	38.4	263.6	
		1-20-66	35.5	266.5	
		2-21-66	34.2	267.8	
		3-24-66	46.8	255.2	
		4-27-66	48.0	253.8	
		5-26-66	46.2	255.8	
		6-29-66	50.0	247.0	
		7-27-66	50.0	245.2	
		8-25-66	50.2	243.0	
		9-21-66	59.0	245.0	
175/25E-10C01 M	335.0	1-26-66	45.4	289.6	5637
175/25E-18C01 M	321.0	1-26-66	70.0	251.0	5637
LOWER KINGS RIVER AREA					
5-22-70					
175/19E-14J01 M	217.0	7-09-66	71.6	145.4	5050
175/20E-20D01 M	223.0	7-29-65	□		5050
		8-30-65	74.6	148.4	
		11-01-65	69.7	153.3	
		11-30-65	64.5	158.5	
		12-28-65	61.5	161.5	
		1-28-66	59.7	163.3	
		3-01-66	60.2	162.8	
		3-29-66	67.5	155.5	
		5-02-66	95.5*	127.5	
		5-27-66	75.5	147.5	
		7-01-66	□		
		7-29-66	81.0	142.0	
		9-02-66	93.0*	130.0	
175/21E-11K01 M	257.0	7-29-65	□		5050
		8-30-65	□		
		10-01-65	□		
		11-02-65	43.0	214.0	
		11-30-65	□		
		12-28-65	39.3	217.7	
		1-28-66	39.7	217.3	
		3-01-66	37.0	219.1	
		3-20-66	39.5	217.5	
		5-03-66	40.9	216.1	
		5-27-66	42.0	215.0	
		7-01-66	□		
		7-29-66	□		
		9-02-66	□		
185/19E-26F01 M	210.0	2-10-66	□		5050
185/20E-16A01 M	230.0	2-10-60	7.9	222.1	5050
185/21E-10E01 M	254.0	7-04-65	71.3	182.7	5129
		8-02-65	76.2	177.8	
		10-01-65	75.7	179.3	
		11-02-65	66.2	187.6	
		11-02-65	62.8	181.2	
		12-28-65	58.3	184.7	
		1-28-66	57.3*	196.7	
		3-01-66	65.8	188.2	
		3-29-66	65.8	188.2	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER KINGS RIVER AREA					
5-22*20					
195/71F-10P01 W	254.0	5-03-66	75.0	179.0	5050
CONT.					
		5-27-66	76.7	177.3	
		7-01-66	82.2	180.8	
		7-29-66	82.5	171.5	
		9-07-66	83.5	170.5	
195/71E-25A01 W	208.0	2-11-66	□		5050
195/70F-09P01 W	220.0	7-29-65	129.5	90.5	5050
		8-30-65	137.0	83.0	
		10-01-65	132.3	87.7	
		11-02-65	128.3	91.7	
		11-30-65	127.3	92.7	
		12-28-65	116.7	103.3	
		1-28-66	115.0	105.0	
		3-01-66	108.1	111.9	
		3-29-66	□		
		5-02-66	122.4	97.6	
		6-08-66	#		
205/22E-19M02 W	211.0	7-29-65	33.0	178.0	5050
		8-30-65	33.5	177.5	
		10-01-65	33.1	177.9	
		11-02-65	32.2	178.8	
		11-30-65	□		
		12-28-65	32.1	178.9	
		1-28-66	33.8	177.2	
		3-01-66	36.0	175.0	
		3-29-66	32.2	178.8	
		5-02-66	32.9	178.1	
		5-27-66	32.9	178.1	
		7-29-66	33.0	177.0	
		9-02-66	34.0	177.0	
ORANGE COVE IRRIGATION DISTRICT					
5-22*21					
165/24E-20B01 W	443.0	7-02-65	□		5001
		8-03-65	□		
		9-01-65	□		
		10-01-65	□		
		10-26-65	□		
		12-01-65	#		
165/24E-29C02 W	430.5	2-01-66	48.1	382.4	5001
ORANGE COVE IRRIGATION DISTRICT					
5-22*21					
145/24E-29C02 W	430.5	3-01-66	47.3	383.2	5001
CONT.					
		4-05-66	47.5	383.0	
		5-02-66	47.9	382.6	
		6-02-66	52.1	378.4	
		7-01-66	50.3	380.2	
		8-03-66	48.8	381.7	
		9-02-66	49.1	381.4	
145/24E-30D01 W	510.0	1-31-66	39.7	470.3	5001
155/24E-14D01 W	405.0	7-01-65	38.2	387.2	5001
		8-02-65	38.5	386.9	
		9-02-65	38.5	386.9	
		10-01-65	38.3	387.3	
		11-02-65	38.2.1	387.1	
		12-01-65	38.4	386.5	
		1-03-66	38.4	386.5	
		2-01-66	38.3	389.7	
		3-01-66	38.5	389.5	
		4-05-66	38.0	389.0	
		5-02-66	38.4	386.6	
		6-02-66	38.5	386.5	
		7-01-66	38.7	387.3	
		8-03-66	38.5	386.5	
		9-02-66	38.4	386.5	
165/24E-04C02 W	415.0	7-05-65	13.9	401.1	5001
		8-05-65	13.2	401.8	
		9-02-65	13.2	401.8	
		10-04-65	12.9	402.1	
		11-03-65	13.8	401.2	
		12-02-65	13.6	401.4	
		1-03-66	13.7	401.3	
		2-01-66	12.8	402.7	
		3-02-66	13.0	402.0	
		4-05-66	13.6	401.4	
		5-05-66	14.0	401.0	
		6-02-66	14.5	400.5	
		7-01-66	14.5	400.5	
		8-01-66	14.9	400.9	
		9-01-66	15.6	399.4	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
STONE COPRAL IRRIGATION DISTRICT 5-22+22											
165/28E-32801 M	405+0	7-27-65	3+0	402+0	5001	175/25E-32501 M	349+0	4-04-66	80+7	268+3	5001
		8-23-65	1+9	403+1				5-01-66	81+3	267+7	
		7-2-66	2+6	402+6				6-02-66	82+3	266+7	
		10-25-65	2+2	403+2				6-29-66	82+8	266+2	
		1-20-66	1+5	403+5				8-04-66	84+1	264+9	
		1-20-66	1+8	403+2				9-04-66	85+4	263+6	
		2-21-66	1+6	403+4				7-01-65	78+5	286+5	5001
		3-24-66	1+9	403+1				8-02-65	77+1	287+9	
		4-27-66	1+7	403+3				8-31-65	80+0	285+0	
		5-26-66	1+7	403+3				9-30-65	76+2	288+8	
		6-29-66	2+1	402+9				11-04-65	73+9	291+1	
		7-27-66	2+2	402+8				11-30-65	73+7	291+3	
		8-25-66	2+5	402+5				1-03-66	73+4	291+6	
		9-21-66	2+6	402+4				2-03-66	73+0	292+0	
								3-01-66	76+3	282+7	
								4-04-66	76+8	286+2	
								6-02-66	76+9	288+1	
								6-29-66	79+0	286+0	
								8-04-66	84+3	280+7	
								9-06-66	□		
175/26E-07801 M	364+0	7-28-65	7+0	357+0	5001	175/25E-32501 M	345+0	7-01-65	78+5	286+5	5001
		8-23-65	7+2	356+8				8-02-65	77+1	287+9	
		9-23-65	6+7	357+8				8-31-65	80+0	285+0	
		10-25-65	8+8	355+2				9-30-65	76+2	288+8	
		11-27-65	7+0	357+0				11-04-65	73+9	291+1	
		12-20-65	7+2	356+8				11-30-65	73+7	291+3	
		1-20-66	6+6	357+4				1-03-66	73+4	291+6	
		2-21-66	6+6	357+4				2-03-66	73+0	292+0	
		3-24-66	5+3	357+7				3-01-66	76+3	282+7	
		4-27-66	5+9	358+1				4-04-66	76+8	286+2	
		5-26-66	6+0	358+0				6-02-66	76+9	288+1	
		6-29-66	6+3	358+7				6-29-66	79+0	286+0	
		7-27-66	5+3	358+7				8-04-66	84+3	280+7	
		8-25-66	7+7	356+3				9-06-66	□		
		9-21-66	7+2	356+8				7-01-65	16+8	377+2	5001
								8-03-65	15+2	378+8	
								9-01-65	15+4	378+6	
								9-30-65	15+4	378+6	
								11-04-65	14+8	379+2	
								11-30-65	15+0	379+0	
								1-03-66	16+0	378+0	
								2-03-66	16+4	377+6	
								3-01-66	16+8	377+2	
								4-04-66	16+9	377+1	
								5-04-66	18+0	376+0	
								6-02-66	18+3	375+7	
								6-29-66	19+4	374+6	
								8-04-66	20+3	373+7	
								9-06-66	18+8	375+2	
175/25E-27801 M	350+0	2-03-66	88+2	261+8	5001	175/26E-27601 M	304+0	7-01-65	16+8	377+2	5001
		7-01-65	83+5	265+5				8-03-65	15+2	378+8	
		8-02-65	84+2	264+8				9-01-65	15+4	378+6	
		8-31-65	84+0	265+0				9-30-65	15+4	378+6	
		9-30-65	84+5	264+5				11-04-65	14+8	379+2	
		11-04-65	84+6	264+4				11-30-65	15+0	379+0	
		11-30-65	84+6	264+6				1-03-66	16+0	378+0	
		1-03-66	84+5	264+5				2-03-66	16+4	377+6	
		3-03-66	82+3	266+7				3-01-66	16+8	377+2	
		3-01-66	81+3	267+7				4-04-66	16+9	377+1	
								5-04-66	18+0	376+0	
								6-02-66	18+3	375+7	
								6-29-66	19+4	374+6	
								8-04-66	20+3	373+7	
								9-06-66	18+8	375+2	
175/25E-34801 M	349+0	7-01-65	67+0	318+0	5001	175/26E-32601 M	385+0	7-01-65	67+0	318+0	5001
		8-03-65	66+1	318+9				8-03-65	66+1	318+9	
		9-01-65	67+0	318+0				9-01-65	67+0	318+0	
		9-30-65	67+0	318+0				9-30-65	67+0	318+0	
		11-04-65	66+0	319+0				11-04-65	66+0	319+0	
		11-30-65	65+3	319+7				11-30-65	65+3	319+7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
IVANHOE LOCALIZATION DISTRICT					
6-22*23					
175/26F-34001 W	385.0	1-02-66	65.6	319.4	5001
		2-03-66	65.0	320.0	
		4-01-66	64.2	320.8	
		5-04-66	61.8	321.2	
		5-20-66	64.8	320.2	
		6-29-66	67.3	317.7	
		8-04-66	67.8	317.2	
		9-06-66	68.8	316.2	
175/26F-34001 W	417.0	7-01-65	65.4	350.6	5001
		8-03-65	63.0	352.0	
		9-01-65	64.0	352.0	
		9-30-65	61.9	354.1	
		11-04-65	60.5	355.5	
		11-30-65	58.0	358.0	
		1-03-66	56.9	359.1	
		2-03-66	56.0	360.0	
		3-01-66	54.2	361.8	
		4-04-66	55.5	360.5	
		5-04-66	60.0	356.0	
		6-02-66	59.5	356.5	
		6-29-66	61.7	354.3	
		8-04-66	63.0	353.0	
		9-04-66	65.7	350.3	
KAWAHI DELTA WATER CONSERV DIST					
5-22*24					
175/26F-34001 W	340.0	8-23-65	113.3	226.7	5001
		9-23-65	103.0	237.0	
		10-28-65	99.5	240.5	
		11-22-65	94.1	245.9	
		12-20-65	95.0	245.0	
		1-20-66	89.7	250.3	
		2-21-66	88.8	251.2	
		3-24-66	95.6	244.4	
		4-27-66	□		
		5-26-66	□		
		6-28-66	107.4	232.6	
		7-27-66	□		
		8-25-66	□		
175/26F-17003 W	385.0	1-31-66	12.6	372.5	5001
175/27F-34001 W	473.0	2-01-66	14.2	468.8	5001
186/22F-30001 W	251.0	2-02-66	82.9	168.1	5001
185/22F-36001 W	245.0	5-01-66	97.5	147.5	5129
		5-29-66	99.6	145.6	
		6-26-66	105.0	140.0	
		7-31-66	111.0	134.0	
		9-04-66	113.9	131.1	
185/23F-17001 W	282.5	7-01-65	62.9	219.6	5001
		7-29-65	65.3	217.2	
		9-02-65	69.4	213.1	
		9-29-65	67.3	215.2	
		11-03-65	62.0	220.5	
		12-01-65	58.9	223.6	
		1-06-66	55.9	226.6	
		1-26-66	54.4	228.1	
		3-03-66	53.6	228.9	
		3-29-66	56.5	226.0	
		5-04-66	64.5	218.0	
		6-07-66	64.5	218.0	
		6-30-66	68.7	213.8	
		8-04-66	73.9	208.6	
		9-03-66	76.1	206.4	
		9-30-66	71.8	210.7	
185/23F-34001 W	271.0	10-10-65	115.0	156.0	5129

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWFAH DELTA WATER CONSERV DIST											
5-22*24											
185/23E-34A01 M	271.0	2-23-66	103.5	167.5	5129	195/22E-34E01 M	234.0	4-27-66	108.5	125.5	5001
CONT.											
185/24E-24A01 M	312.5	2-07-66	67.5	245.0	5001	195/22E-34E01 M	234.0	5-25-66	112.5	121.5	5001
185/25E-17001 M	363.0	2-07-66	44.1	318.9	5001	195/22E-34E01 M	234.0	6-27-66	111.1	122.0	5001
185/25E-33E01 M	338.0	2-02-66	44.1	293.9	5001	195/22E-34E01 M	234.0	7-25-66	112.3	121.7	5001
185/26E-27E01 M	396.0	2-07-66	17.3	372.7	5001	195/22E-34E01 M	234.0	8-23-66	113.4	120.6	5001
185/26E-30N01 M	367.0	7-01-65	24.5	342.5	5001	195/22E-34E01 M	234.0	9-19-66	113.1	120.9	5001
		7-20-65	24.3	342.7	5001			7-01-65	51.5	248.5	5001
		9-03-65	24.9	342.1	5001			7-29-65	49.5	270.5	5001
		9-20-65	20.0	346.1	5001			9-02-65	41.2	278.8	5001
		11-03-65	22.8	344.2	5001			9-29-65	43.5	276.5	5001
		12-01-65	22.9	344.1	5001			11-03-65	49.6	270.4	5001
		1-05-66	20.9	346.1	5001			12-01-65	50.5	269.5	5001
		1-26-66	20.6	346.6	5001			1-05-66	51.7	268.3	5001
		3-03-66	25.1	344.0	5001			1-24-66	51.7	268.3	5001
		5-20-66	25.0	341.5	5001			3-03-66	52.7	266.3	5001
		6-07-66	27.3	339.7	5001			5-24-66	52.7	266.3	5001
		6-30-66	26.3	340.7	5001			6-24-66	55.0	265.0	5001
		8-06-66	28.7	338.3	5001			8-07-66	54.7	265.3	5001
		9-02-66	32.2	334.8	5001			8-30-66	55.6	264.4	5001
		9-20-66	29.4	337.6	5001			9-04-66	59.4	260.6	5001
195/22E-01N02 M	245.0	10-06-65	79.9	165.1	5001	195/26E-34E02 M	341.0	9-02-66	61.3	258.7	5001
		2-03-66	79.5	165.5	5001			9-30-66	62.6	257.4	5001
195/22E-19A01 M	235.0	5-01-66	100.9	134.1	5129			7-27-65	0		5001
		5-29-66	103.4	131.6	5129			8-23-65	0		5001
		6-24-66	105.1	129.9	5129			9-23-65	112.3	228.7	5001
		7-31-66	108.3	126.7	5129			10-25-65	96.2	244.8	5001
		9-04-66	110.7	124.3	5129			11-22-65	96.0	245.0	5001
195/22E-36E01 M	234.0	7-28-65	110.9	123.1	5001			12-20-65	94.3	246.7	5001
		8-23-65	111.6	122.4	5001			1-20-66	84.0	257.0	5001
		9-23-65	111.9	122.1	5001			2-21-66	86.0	255.0	5001
		10-25-65	111.4	122.6	5001			3-24-66	0		5001
		11-22-65	111.1	122.9	5001			4-26-66	0		5001
		12-20-65	111.0	123.0	5001			5-24-66	0		5001
		1-20-66	109.5	124.5	5001			6-28-66	0		5001
		2-21-66	107.5	126.5	5001			7-26-66	0		5001
		3-24-66	107.8	126.2	5001			8-24-66	0		5001
								9-21-66	123.4	217.6	5001
								10-06-65	137.7	88.3	5001
								2-03-66	126.4	99.5	5001
								7-28-65	85.4	219.1	5001
								8-23-65	104.5	200.0	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERV DIST 5-72+24											
205/25E-14F01 M	304.5	9-23-65	95.9	208.6	5001	195/24F-16R01 M	290.0	5-03-66	94.3	195.7	5001
		10-25-65	90.9	213.6				5-31-66	101.0	189.0	
		11-22-65	83.0	221.5				8-01-66	105.7	184.3	
		12-20-65	79.7	224.8				8-26-66	109.2	180.8	
		1-20-66	77.2	227.3				9-30-66	97.0	193.0	
		2-21-66	80.5	224.0							
		4-23-66	104.5	200.0							
		8-27-66	102.5	202.0							
		9-25-66	103.6	200.9							
		9-27-66	101.0	203.5							
		8-20-66	113.2	191.1							
		9-20-66	105.6	198.9							
TULARE IRRIGATION DISTRICT 5-22+25											
195/23E-14R01 M	270.0	7-06-65	86.2	183.8	5001	195/24E-17J01 M	327.0	7-06-65	61.5	265.5	5001
		8-02-65	86.5	183.4				8-02-65	59.7	267.3	
		8-26-65	85.4	184.6				8-26-65	59.4	267.6	
		10-06-65	84.0	186.0				10-06-65	55.8	271.2	
		11-02-65	83.0	187.0				11-02-65	53.7	273.3	
		11-30-65	82.0	188.0				11-30-65	53.0	274.0	
		1-04-66	80.8	189.2				1-04-66	53.0	274.0	
		1-28-66	81.5	188.5				1-28-66	52.0	275.0	
		3-02-66	79.0	191.0				3-02-66	54.4	272.6	
		3-29-66	79.1	190.9				3-29-66	60.2	266.8	
		5-03-66						5-03-66			
		5-31-66	88.6	181.4				5-31-66			
		6-28-66	87.6	182.4				6-28-66			
		7-25-66						9-01-66			
		8-24-66	94.9	175.1				8-26-66	70.1	256.9	
		9-30-66	92.9	177.1				9-30-66	68.8	258.2	
195/23E-12R01 M	280.5	7-03-66			5001	205/23E-08B02 M	241.0	7-05-65	112.0	128.0	5001
		7-06-65	99.5	190.5				8-02-65	112.5	128.5	
		8-07-65	102.0	188.0				8-26-65	110.3	130.7	
		9-28-65	97.8	192.2				10-05-65	110.5	132.5	
		10-06-65	87.0	193.0							
		11-02-65	84.5	202.5							
		11-04-66	81.5	208.5							
		1-28-66	80.1	209.9							
		3-02-66	81.5	208.5							
		3-29-66	99.8	190.2							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE IRRIGATION DISTRICT											
5-22+25											
205/24F-00R02 M											
CONT.											
	241.0	11-02-65	106.5	134.5	5001	205/24F-30J02 M	250.0	9-30-66	108.5	141.5	5001
		11-30-65	104.2	136.8		CONT.					
		1-04-66	101.5	139.5							
		1-28-66	99.6	141.4		215/23F-05R01 M	222.0	7-06-65	100.3	121.7	5001
		3-02-66	102.5	138.5							
		3-29-66	102.3	138.7							
		5-03-66	105.5	135.5							
		5-31-66	107.7	133.3							
		5-28-66	109.8	131.2							
		8-01-66	114.1	126.9							
		8-26-66	115.2	126.8							
		9-30-66	117.0	124.8							
TULARE IRRIGATION DISTRICT											
5-22+26											
205/24E-16R01 M											
	273.0	7-06-65	116.0	157.0	5001						
		9-02-65	115.6	157.4							
		9-26-65	115.2	157.8							
		10-06-65	101.9	171.1							
		11-02-65	98.0	175.0							
		11-30-65	94.3	178.7							
		1-04-66	88.5	184.5							
		1-28-66	87.2	185.8							
		3-02-66	93.2	179.8							
		3-29-66	100.6	172.4							
		5-03-66	112.2	160.8							
		5-31-66	115.5	157.5							
		5-28-66	115.5	157.5							
		8-01-66	133.9	139.1							
		8-26-66	128.8	144.2							
		9-30-66	128.8	144.2							
TULARE IRRIGATION DISTRICT											
5-22+26											
185/26E-25K01 M											
	436.0	7-28-65	59.7	376.3	5001						
		8-23-65	60.0	376.0							
		9-23-65	59.2	376.8							
		10-26-65	59.4	376.6							
		11-22-65	58.0	378.0							
		12-20-65	55.5	380.5							
		1-20-66	54.3	381.7							
		2-21-66	53.5	382.5							
		3-24-66	54.4	381.6							
		4-26-66	56.9	379.1							
		5-26-66	60.1	375.9							
		6-28-66	62.1	373.9							
		7-27-66	66.3	369.7							
		8-25-66	69.2	366.8							
		9-21-66	69.9	366.1							
TULARE IRRIGATION DISTRICT											
5-22+26											
185/27E-20K01 M											
	447.0	7-28-65	31.0	416.0	5001						
		8-23-65	27.4	419.6							
		9-23-65	26.6	420.4							
		10-26-65	30.7	416.3							
		11-22-65	30.0	417.0							
		12-20-65	29.8	417.2							
		1-20-66	28.7	418.3							
		2-21-66	27.0	420.0							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	GROUND SURFACE TO WATER SURFACE IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EYFET IRRIGATION DISTRICT						
5-22-26						
105/27E-20001 W	447.0	30.3	3-24-66	416.7	5001	
			4-24-66	415.4		
			5-26-66	415.1		
			7-27-66			
			8-26-66			
			9-21-66	404.4		
105/26E-14001 W	375.0		7-27-65		5001	
			8-23-65			
			9-23-65	283.1		
			10-26-65	86.5		
			11-22-65	288.8		
			12-20-65	84.4		
			1-20-66	82.9		
			2-21-66	81.3		
			3-24-66			
			4-26-66			
			5-26-66			
			6-28-66			
			7-26-66			
			8-24-66			
			9-21-66	98.0		
105/26E-23001 W	350.0		2-01-66	277.0	5001	
LINDSAY-STRAITHMORE IRRIG DIST						
5-22-27						
205/27E-21001 W	414.0	43.4	2-02-66	370.6	5001	
205/27E-20001 W	406.0	43.1	2-02-66	362.9	5001	
LINDMORE IRRIGATION DISTRICT						
5-22-28						
205/26E-01001 W	360.0		7-27-65		5001	
			8-23-65	96.3		
			9-23-65			
			10-25-65	93.7		
			11-22-65	86.4		
			12-20-65	83.0		
			1-20-66	81.2		
			2-21-66	76.6		
			3-24-66			
			4-26-66	93.0		
			5-26-66			
			7-27-66	101.8		
			8-24-66	104.2		
			9-20-66	109.2		
205/26E-22002 W	341.0		2-01-66	99.1	5001	
205/26E-24001 W	362.5		7-27-65	74.8	5001	
			8-23-65	76.4		
			9-23-65	71.6		
			10-21-65	70.5		
			11-22-65	69.5		
			12-20-65	69.1		
			1-19-66	68.3		
			2-23-66	67.9		
			3-24-66	70.5		
			4-26-66	72.8		
			5-26-66	74.2		
			6-28-66	76.7		
			7-26-66	76.0		
			8-24-66	80.4		
			9-20-66	77.7		
205/26E-22001 W	331.5		7-27-65		5001	
			8-23-65	128.7		
			9-23-65	120.4		
			10-21-65	121.7		
			11-22-65	116.0		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LINDSDE IRRIGATION DISTRICT 5-22-28					
205/26F-22A01 M	311.5	12-20-65	105.9	225.6	5001
		1-19-66	110.7	220.8	
		2-24-66	104.4	227.1	
		3-21-66	115.0	216.5	
		4-26-66	109.2	222.3	
		5-23-66	116.0	221.5	
		7-28-66	138.5	193.0	
		8-24-66	135.6	195.9	
		9-20-66	127.2	204.3	
205/27F-20F01 M	392.0	7-27-65	50.2	341.8	5001
		8-23-65	□		
		9-29-65	48.7	343.3	
		10-27-65	50.7	341.3	
		11-22-65	48.2	343.8	
		12-20-65	46.6	345.4	
		1-19-66	46.8	345.2	
		2-23-66	45.3	346.7	
		3-24-66	48.4	343.6	
		4-26-66	48.1	343.9	
		5-26-66	□		
		6-28-66	50.3	341.7	
		7-26-66	□		
		8-24-66	□		
		9-20-66	51.5	340.5	
215/26F-01001 M	372.0	7-27-65	92.3	279.7	5001
		8-23-65	86.4	285.6	
		9-22-65	88.2	283.8	
		10-27-65	74.4	297.6	
		11-22-65	69.8	302.2	
		12-22-65	66.6	305.4	
		1-19-66	65.3	306.7	
		2-23-66	64.4	307.4	
		3-23-66	93.8	278.2	
		4-26-66	83.6	288.4	
		5-27-66	84.1	287.9	
		6-28-66	92.0	280.0	
		7-26-66	94.5	277.4	
		8-24-66	105.2	265.8	
		9-20-66	□		
215/27F-02F01 M	429.0	7-27-65	32.2	396.8	5001
		8-23-65	32.0	397.0	
		9-22-65	30.8	398.2	
		10-27-65	30.3	398.7	
		1-19-66	30.5	394.7	
		2-23-66	□		
		3-23-66	27.7	399.3	
		4-26-66	32.5	396.5	
		5-26-66	32.1	398.9	
		6-28-66	31.8	397.7	
		7-26-66	35.3	393.7	
		8-24-66	35.5	393.5	
		9-20-66	38.1	390.9	
215/27F-23A01 M	436.0	7-27-65	31.4	397.6	5001
		8-23-65	32.0	397.0	
		9-22-65	30.8	398.2	
		10-27-65	30.3	398.7	
		1-19-66	30.5	394.7	
		2-23-66	□		
		3-23-66	27.7	399.3	
		4-26-66	32.5	396.5	
		5-26-66	32.1	398.9	
		6-28-66	31.8	397.7	
		7-26-66	35.3	393.7	
		8-24-66	35.5	393.5	
		9-20-66	38.1	390.9	
LINDSDE IRRIGATION DISTRICT 5-22-29					
215/26F-23A01 M	374.0	7-20-65	65.8	308.2	5001
		8-23-65	56.3	317.7	
		9-20-65	65.1	308.9	
		10-27-65	□		
		11-22-65	59.9	314.1	
		12-20-65	58.1	315.9	
		1-28-66	63.4	310.6	
		2-26-66	63.1	310.9	
		3-29-66	64.0	310.0	
		4-26-66	62.2	311.8	
		5-26-66	63.0	311.0	
		6-21-66	□		
215/27F-21C01 M	409.0	7-27-65	32.2	376.8	5001
		8-23-65	32.3	376.7	
		9-22-65	32.0	377.0	
		10-27-65	31.0	378.0	
		11-22-65	30.0	379.0	
		12-22-65	28.5	380.5	
		1-19-66	27.8	381.1	
		2-23-66	26.8	382.2	
		3-23-66	26.1	380.9	
		4-26-66	26.9	382.1	
		5-26-66	27.2	381.8	
		6-28-66	28.2	380.8	
		7-26-66	29.6	378.4	
		8-24-66	30.6	378.2	
215/27F-23A01 M	436.0	7-27-65	32.2	396.8	5001
		8-23-65	32.0	397.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER DEPTH IN FEET	WATER ELEVATION IN FEET	AGENCY SUPPLYING DATA
PORTERVILLE IRRIGATION DISTRICT 5-22*29					
215/27F-2801 M	420.0	7-20-65	27.5	392.5	5001
		8-21-65	18.5	401.5	
		9-20-65	22.0	398.0	
		10-27-65	□		
		11-22-65	22.4	397.6	
		12-20-65	18.6	401.4	
		1-28-66	16.8	403.2	
		4-03-66	16.7	403.3	
		2-26-66	16.7	403.3	
		3-29-66	20.4	399.6	
		4-20-66	20.0	400.0	
		5-20-66	20.1	399.9	
		6-21-66	22.9	377.1	
		7-24-66	25.3	384.7	
		8-22-66	26.5	383.5	
		9-21-66	26.3	383.7	
275/76F-01J01 M	305.0	7-20-65	90.7	304.3	5001
		8-23-65	79.0	316.0	
		9-20-65	87.8	312.2	
		10-27-65	86.6	308.4	
		11-22-65	86.6	308.4	
		12-22-65	80.8	314.2	
		1-28-66	79.9	315.1	
		2-28-66	80.0	315.0	
		3-29-66	82.4	312.6	
		4-28-66	80.6	314.4	
		5-20-66	94.9	300.1	
		6-21-66	97.6	297.4	
		7-28-66	107.2	287.8	
		8-22-66	90.2	304.8	
		9-21-66	86.7	308.3	
275/27F-10001 M	467.0	2-03-66	108.6	358.4	5001
LOWER TULE RIVER IRRIGATION DIST 5-22*30					
215/23F-22J01 M	221.4	2-03-66	90.5	131.0	5001
215/24F-15401 M	243.0	2-05-66	51.2	201.8	5001
215/24F-31001 M	230.0	7-05-65	82.2	147.8	5001
		8-06-65	81.6	148.4	
		9-07-65	81.8	148.2	
		10-08-65	80.6	149.4	
		11-08-65	80.1	149.9	
LOWER TULE RIVER IRRIGATION DIST 5-22*30					
215/24F-31001 M	230.0	12-02-65	79.1	150.9	5001
		1-05-66	79.7	150.3	
		3-29-66	78.8	151.2	
		4-02-66	78.1	151.9	
		5-31-66	87.8	149.2	
		7-02-66	83.1	146.9	
		7-30-66	84.3	145.7	
		8-28-66	84.3	145.7	
215/24F-35001 M	261.0	7-05-65	93.3	157.7	5001
		8-06-65	93.2	157.8	
		9-07-65	96.0	155.0	
		10-03-65	93.2	157.8	
		11-05-65	92.1	158.9	
		12-02-65	89.9	161.1	
		1-05-66	89.7	161.3	
		1-20-66	94.0	152.1	
		3-06-66	87.8	163.2	
		4-02-66	88.7	162.3	
		4-30-66	88.7	161.8	
		5-31-66	87.6	161.8	
		7-30-66	92.6	148.8	
		8-28-66	93.5	157.6	
				157.5	
215/24F-08001 M	205.0	2-03-66	□		5001
215/24F-16001 M	201.0	7-05-65	43.5	247.5	5001
		8-06-65	47.4	243.6	
		9-07-65	40.7	241.3	
		10-03-65	38.3	252.7	
		11-05-65	38.2	252.8	
		12-02-65	33.9	267.1	
		1-05-66	34.0	267.0	
		1-20-66	37.7	259.3	
		3-06-66	35.4	256.6	
		4-02-66	38.7	252.3	
		4-30-66	41.9	249.1	
		5-31-66	43.4	247.6	
		7-02-66	46.7	244.3	
		7-30-66	51.8	230.2	
		8-28-66	57.2	238.8	
215/26F-06002 M	322.0	7-05-65	106.0	216.1	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWEP TULF RIVER IRRIGATION DIST					
5-22-30					
215/26F-0602 M	322.0	8-05-65	115.5	206.5	5001
		9-07-65	110.8	211.2	
		10-03-65	100.7	212.3	
		11-05-65	81.3	212.7	
		12-02-65	75.4	242.6	
		1-06-66	80.4	241.6	
		1-29-66	70.6	261.4	
		3-08-66	79.4	242.6	
		4-02-66	88.0	234.0	
		4-30-66	97.0	225.0	
		5-31-66	97.4	224.6	
		7-02-66	99.1	222.9	
		7-30-66	101.3	220.7	
		8-28-66	121.6	200.4	
CONT.					
215/26F-10F01 M	350.0	7-05-65	66.7	283.3	5001
		8-05-65	67.2	282.8	
		9-07-65	68.2	281.8	
		10-03-65	63.7	286.3	
		11-05-65	58.8	291.2	
		12-02-65	59.9	294.1	
		1-06-66	51.1	298.9	
		1-29-66	51.9	298.1	
		3-08-66	52.2	297.8	
		4-02-66	52.9	297.1	
		4-30-66	□		
		5-31-66	54.1	295.9	
		7-02-66	55.6	294.4	
		7-30-66	64.1	285.9	
		8-28-66	65.5	284.5	
CONT.					
225/24F-09A01 M	245.0	8-04-65	117.5	177.5	5001
		9-07-65	120.5	124.5	
		10-03-65	121.8	123.2	
		11-05-65	117.0	128.0	
		12-02-65	116.1	128.9	
		1-06-66	112.8	132.2	
		1-29-66	112.6	132.4	
		3-08-66	116.0	131.0	
		4-02-66	116.9	129.1	
		4-30-66	116.1	125.9	
		5-31-66	119.1	125.9	
		7-02-66	123.7	121.3	
		7-30-66	□		
CONT.					
LOWEP TULE RIVER IRRIGATION DIST					
5-22-30					
225/24F-09A01 M	245.0	8-28-66	□		5001
CONT.					
225/24F-15A01 M	251.5	2-05-66	138.7	112.8	5001
225/24F-10F01 M	296.0	7-05-65	108.3	187.7	5001
		8-04-65	111.4	184.6	
		9-07-65	110.4	185.6	
		10-03-65	107.3	188.7	
		11-05-65	103.1	192.9	
		12-02-65	102.7	193.3	
		1-05-66	99.7	196.3	
		1-29-66	100.3	195.7	
		3-08-66	100.2	195.8	
		4-02-66	99.4	196.6	
		4-30-66	103.1	192.9	
		5-31-66	103.0	193.0	
		7-02-66	108.4	187.6	
		7-30-66	108.2	187.8	
		8-28-66	111.7	184.3	
225/24F-15A01 M	300.5	2-12-66	126.7	173.8	5001
225/26F-06A01 M	337.0	2-02-66	109.0	228.0	5001
225/26F-06F04 M	331.0	7-05-65	121.8	209.2	5001
		8-05-65	133.6	197.4	
		9-07-65	136.0	195.0	
		10-03-65	128.0	205.0	
		11-05-65	119.9	211.1	
		12-02-65	119.3	211.6	
		1-06-66	115.2	215.8	
		1-29-66	114.0	214.9	
		3-08-66	119.7	209.3	
		4-02-66	151.6	205.3	
		4-30-66	125.7		
		5-01-66	#		
CONT.					
VANDALIA IRRIGATION DISTRICT					
5-22-31					
225/24F-07001 M	574.0	7-27-65	130.2	393.8	5001
		8-23-65	133.6	390.4	
		9-22-65	134.4	389.6	
		10-22-65	133.5	390.5	
		11-22-65	115.9	408.1	
		12-22-65	113.3	410.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
VANDALIA IRRIGATION DISTRICT 5-22*31											
225/28E-07001 W	524.0	1-19-66	126.7	399.3	5001	225/26E-32F01 W	330.0	7-26-65	□	129.8	5001
		2-23-66	122.5	401.5				8-23-65	209.2		
		3-23-66	121.7	402.3				9-23-65		131.0	
		4-26-66	125.1	398.9				10-26-65	208.0		
		5-26-66	□					11-22-65	□	140.2	
		6-28-66	132.8	391.2				12-21-65	198.8		
		7-26-66	□	389.7				1-10-66	□	153.1	
		8-24-66	□					2-23-66	185.9	142.0	
		9-20-66	136.3	389.7				3-23-66	197.0	145.5	
								4-26-66	193.5	137.6	
								5-26-66	201.4	138.5	
								6-27-66	200.5		
								7-26-66	□		
								8-23-66	□		
								9-10-66	□		
225/28E-18001 W	535.0	7-27-65	139.7	395.3	5001	225/26E-02001 W	307.0	2-03-66	149.0	248.0	5001
		8-23-65	141.1	393.9				7-26-65	□		
		9-23-65	136.0	399.0				8-23-65	182.0	198.1	
		10-27-65	138.0	397.0				9-23-65	185.3	195.7	
		11-22-65	119.3	415.7				10-26-66	176.0	205.0	
		12-22-65	112.9	422.1				11-22-65	166.9	210.1	
		1-19-66	109.6	425.4				12-21-65	166.9	209.0	
		2-23-66	104.5	428.5				1-19-66	172.0	209.0	
		3-23-66	109.0	426.0				2-23-66	167.6	213.4	
		4-26-66	126.1	408.9				3-22-66	157.4	223.6	
		5-26-66	125.4	409.6				4-26-66	□		
		6-28-66	134.5	400.5				5-26-66	202.7*	178.3	
		7-27-66	136.5	398.5				6-27-66	□		
		8-26-66	147.3	387.7				7-26-66	202.9	178.1	
		9-20-66	146.8	388.2				8-23-66	216.8	164.2	
								9-19-66	□		
CAUFELITO IRRIGATION DISTRICT 5-22*32											
225/26E-12000 W	306.0	7-02-64	107.6	298.5	5001	225/26E-02001 W	307.0	2-03-66	149.0	248.0	5001
		7-27-65	141.6	229.5				7-26-65	□		
		8-23-65	136.5	234.5				8-23-65	182.0	198.1	
		9-23-65	144.5	226.5				9-23-65	185.3	195.7	
		10-27-65	135.6	235.5				10-26-66	176.0	205.0	
		11-22-65	138.5	232.5				11-22-65	166.9	210.1	
		12-22-65	138.6	232.4				12-21-65	166.9	209.0	
		1-19-66	141.0	228.9				1-19-66	172.0	209.0	
		2-23-66	127.9	245.1				2-23-66	167.6	213.4	
		3-23-66	129.3	241.7				3-22-66	157.4	223.6	
		4-26-66	136.6	236.4				4-26-66	□		
		5-26-66	□					5-26-66	202.7*	178.3	
		6-27-66	□					6-27-66	□		
		7-27-66	□					7-26-66	202.9	178.1	
		8-23-66	□					8-23-66	216.8	164.2	
		9-19-66	□					9-19-66	□		
PIXLEY IRRIGATION DISTRICT 5-22*33											
225/25E-25001 W	310.0	7-27-65	222.8	87.2	5001	225/25E-25001 W	310.0	7-27-65	222.8	87.2	5001
		8-23-65	220.2	89.8				8-23-65	220.2	89.8	
		9-23-65	211.8	98.2				9-23-65	211.8	98.2	
		10-27-65	203.0	107.0				10-27-65	203.0	107.0	
		11-23-66	192.9	117.1				11-23-66	192.9	117.1	
		12-21-65	187.0	123.0				12-21-65	187.0	123.0	
		1-20-66	182.1	127.9				1-20-66	182.1	127.9	
		2-23-66	180.1	129.9				2-23-66	180.1	129.9	
		3-23-66	188.0	122.0				3-23-66	188.0	122.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	
91XLFY IRRIGATION DISTRICT												
5-22.33												
225/25E-25N01 M CONT.	310.0	4-25-66	194.1	115.9	5001	235/25E-15J07 M CONT.	291.0	2-24-66	157.4	133.6	5001	
		5-25-66	203.5	106.5				2-22-66	184.6	105.4		
		6-27-66	215.3	94.7				4-24-66	□			
		7-25-66	227.5	82.5								
		8-25-66	230.6	79.4								
		9-19-66	217.0	93.0								
		1-28-66	36.9	170.1	5001							
		7-24-65	135.5	86.5	5001							
		8-24-65	138.8	83.2	5001							
235/25E-16N01 M	222.0	9-24-65	138.5	83.5								
		10-28-65	137.1	84.9								
		11-23-65	135.9	86.1								
		12-21-65	129.5	92.5								
		1-20-66	126.2	95.8								
		2-24-66	123.2	98.8								
		3-22-66	124.7	97.3								
		4-26-66	129.0	93.0								
		5-26-66	131.3	90.7								
		6-27-66	133.4	88.6								
		7-26-66	137.5	84.5								
		8-23-66	138.6	83.4								
		9-19-66	139.1	82.9								
		7-26-65	□		5001							
		8-24-65	□									
		9-23-65	□									
	10-28-65	□										
	11-22-65	166.8	111.2									
	12-21-65	156.9	121.1									
	1-26-66	150.1	127.9									
	2-23-66	146.4	131.6									
	3-22-66	175.9	98.1									
	4-24-66	4										
235/25E-09N02 M	278.0	1-27-66	55.3	244.7	5001	235/25E-17N03 M	269.0	8-23-65	105.9	163.1	5000	
		7-26-65	□									
		8-23-65	□									
		9-23-65	□									
		10-28-65	□									
		11-22-65	166.8	111.2								
		12-21-65	156.9	121.1								
		1-26-66	150.1	127.9								
		2-23-66	146.4	131.6								
		3-22-66	175.9	98.1								
		4-24-66	4									
235/25E-14C01 M	300.0	1-27-66	55.3	244.7	5001	235/25E-16N04 M	263.0	8-23-65	101.6	161.4	5000	
		7-26-65	□									
		8-23-65	□									
		9-23-65	□									
		10-28-65	□									
		11-22-65	166.8	111.2								
		12-21-65	156.9	121.1								
		1-26-66	150.1	127.9								
		2-23-66	146.4	131.6								
		3-22-66	175.9	98.1								
		4-24-66	4									
235/25E-15J07 M	291.0	7-26-65	□			235/25E-08N01 M	345.0	7-26-65	189.5	155.5	5001	
		8-23-65	□									
		9-23-65	□									
		10-28-65	209.5	81.5								
		11-22-65	197.7	93.3								
		12-21-65	198.3	92.7								
		1-20-66	193.3	97.7								
		1-20-66	159.7	131.3								

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PIXLEY IRRIGATION DISTRICT					
5-22*33					
235/26F-08P01 M	345.0	12-21-65	177.2	167.8	5.001
		1-19-66	173.2	171.8	
		2-23-66	174.5	170.5	
		3-22-66	177.8	167.2	
		4-25-66	176.9	168.1	
		5-25-66	183.2	161.8	
		6-27-66	188.8	156.2	
		7-25-66	198.9	146.1	
		8-23-66	200.6	144.4	
		9-10-66	196.4	148.6	
ALPAUGH-ALLENSWORTH ADEA					
5-22*34					
235/23F-28L01 M	196.0	7-24-65	124.2	71.8	5.001
		8-24-65	113.9	82.1	
		9-23-65			
		10-01-65	118.4	77.6	
		10-28-65	99.7	96.3	
		11-23-65	85.0	108.0	
		12-21-65	70.6	125.4	
		1-20-66	88.0	119.0	
		2-23-66	88.1	107.9	
		3-23-66	90.5	105.8	
		4-26-66	86.8	103.2	
		5-24-66	86.8	103.2	
		6-27-66	107.6*	88.6	
		7-25-66	117.2	78.8	
		8-23-66	126.0	70.0	
		9-10-66	124.0	72.0	
235/23F-33A01 M	210.0	7-24-65	13.7	196.3	5.001
		8-24-65	13.9	196.1	
		9-23-65	13.8	196.2	
		10-28-65	13.8	196.2	
		11-23-65	14.1	195.9	
		12-21-65	14.0	196.0	
		1-20-66	13.8	196.2	
		2-24-66	13.6	196.4	
		3-22-66	13.6	196.4	
		4-25-66	12.7	197.3	
		5-23-66	13.6	196.4	
		6-27-66	13.8	196.2	
		7-25-66	13.8	196.2	
		8-23-66	14.0	196.0	
		9-10-66	13.7	196.3	
ALPAUGH-ALLENSWORTH ADEA					
5-22*34					
235/23F-33A04 M	210.0	10-28-65	78.5	131.5	5.001
		2-24-66	76.5	133.5	
235/23F-33A05 M	210.0	7-24-65	17.0	193.0	5.001
		8-24-65	77.7	132.3	
		9-23-65	78.4	131.6	
		10-28-65	79.0	131.0	
		11-23-65	78.2	130.8	
		12-21-65	78.9	131.1	
		1-20-66	77.4	132.6	
		2-24-66	77.0	132.0	
		3-22-66	76.4	133.6	
		4-25-66	76.3	133.7	
		4-24-66	#		
245/23F-21B02 M	204.0	1-27-66	60.2	143.8	5.001
245/23F-22F01 M	205.0	7-24-65	90.3	114.7	5.001
		8-24-65	94.6	110.4	
		9-23-65	98.3	106.7	
		10-28-65	98.0	107.0	
		11-23-65	94.7	110.3	
		12-21-65	92.1	112.9	
		1-20-66	90.8	114.7	
		2-24-66	90.6	114.6	
		3-22-66	90.0	114.1	
		4-24-66	93.2	111.8	
		4-26-66	#		
245/23F-34B01 M	206.0	1-27-66	176.0	30.0	5.001
245/24F-20B01 M	218.0	7-24-65			5.001
		8-24-65	230.8	-	
		9-23-65	233.0	-	
		10-28-65	220.0	-	
		11-23-65	215.0	-	
		12-21-65	178.0	39.1	
		1-20-66	175.7	42.3	
		2-24-66	158.8	59.2	
		3-22-66			
		4-25-66	194.5	24.5	
		5-23-66			
		6-27-66			
		7-25-66			
		8-23-66			

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
AT RAIIGH-ALLFNSWORTH AREA											
5-22.34											
245/24F-20R01 M	218.0	9-19-66	204.5	13.5	5001	245/26E-33J01 M	201.5	1-27-66	68.0	223.5	5001
CONT.											
245/24E-23001 M	235.0	1-27-66	55.2*	179.8	5001	245/26E-05R01 M	376.0	2-02-66	169.0	207.0	5001
245/24F-24E01 M	249.0	7-26-65	□	103.1	5001	245/26E-20H01 M	378.0	1-31-66	141.0	237.0	5001
		8-24-65	145.9			245/26E-29R02 M	401.0	7-20-65	144.6	256.4	5000
		9-23-65	□					8-23-65	141.9	259.1	
		10-26-65	132.3	116.7				9-22-65	138.2	262.8	
		11-23-65	112.4	136.6				10-21-65	136.5	264.5	
		12-21-65	103.1	145.7				11-27-65	134.1	268.2	
		1-20-66	99.7	149.3				12-17-65	132.8	268.2	
		2-24-66	99.0	149.1				1-18-66	131.8	268.2	
		3-22-66	□					2-23-66	131.8	272.2	
		4-28-66	□					4-18-66	134.8	266.2	
		5-25-66	□					6-20-66	159.9	241.1	
		6-27-66	109.8	139.2				7-18-66	163.1	237.9	
		8-25-66	□					8-22-66	160.4	240.6	
		9-01-66	#					9-20-66	149.4	251.6	
5-22.35											
DFLANO-EARLIMART IRRIG DIST											
235/25E-27J02 M	296.0	2-04-66	92.0	204.0	5001	245/26E-32G01 M	396.0	1-31-66	117.5	278.5	5001
235/26E-20P01 M	356.5	2-03-66	177.5	179.0	5001	245/26E-34F01 M	445.0	7-01-65	249.0*	196.0	5000
235/27E-28J01 M	533.3	1-28-66	□		5001			8-23-65	246.2	198.8	
245/25E-07H01 M	321.0	7-26-65	102.4	218.6	5001			9-22-65	239.8	205.2	
		8-24-65	102.9	218.1				10-21-65	238.1	206.9	
		9-23-65	102.6	218.4				11-17-65	231.4	221.0	
		10-25-65	101.5	219.5				12-18-65	224.0	221.0	
		11-22-65	96.5	224.5				1-18-66	□	228.6	
		12-21-65	98.5	222.5				2-17-66	216.4	228.4	
		1-20-66	80.0*	241.0				3-17-66	216.6	228.4	
		2-24-66	100.4	220.6				4-13-66	237.2	207.8	
		3-22-66	100.7	220.3				5-11-66	256.7	188.3	
		4-25-66	101.2	219.8				6-02-66	267.3	177.7	
		5-24-66	101.3	219.7				7-07-66	279.3	165.7	
		6-27-66	102.3	218.7				8-03-66	287.2	157.8	
		7-25-66	102.4	218.6				9-31-66	274.1	170.9	
		8-23-66	101.6	219.4				9-28-66	254.8	190.2	
		9-10-66	103.0	218.0							
245/25E-12A01 M	304.0	2-03-66	113.5	190.5	5001	245/27E-31P01 M	526.5	1-25-66	387.5	139.0	5001
245/25E-33J01 M	291.5	9-30-65	68.0*	223.5	5001	245/26E-01A02 M	508.5	7-01-65	361.3	144.2	5000
								8-23-65	408.9*	96.6	
								9-22-65	345.1	160.4	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER ELEVATION IN FEET	WATER SUPPLYING AGENCY DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER ELEVATION IN FEET	WATER SUPPLYING AGENCY DATA		
DELANO-EARLEWART IRRIG DIST											
255/26F-01A02 M CONT.	505.45	10-21-65	334.2	171.3	5000	SOUTHERN SAN JOAQUIN MUD CONT.	8-22-66	111.1	5000		
		11-17-65	323.3	182.2			9-20-66	□			
		12-19-65	315.2	190.3			10-01-65	5001			
		1-27-66	307.0	198.5						1-24-66	69.0
		2-17-66	305.1	200.4						7-20-65	197.8
		3-10-66	315.2	190.3						8-23-65	207.3
		4-13-66	329.6	175.9						9-22-65	206.9
		5-11-66	351.7	156.3						10-18-65	188.3
		6-09-66	#							11-22-65	165.4
										12-16-65	151.0
										1-18-66	156.0
										2-23-66	160.8
										3-22-66	165.3
			4-18-66	172.9							
			5-18-66	172.9							
255/26F-10B03 M	430.0	2-01-66	202.5	227.5	5001	6-20-66	196.1	91.9	5000		
255/26E-14D01 M	388.0	7-20-65	110.7	277.3	5000	7-18-66	240.7	45.3	5000		
		8-23-65	109.7	278.3		8-22-66	244.9	41.1			
		9-22-65	110.0	279.0		9-20-66	230.7	55.3			
		10-18-65	105.6	282.4		9-21-66	#				
		11-22-65	103.9	285.1		10-01-65	189.5	172.5	5001		
		12-16-65	104.2	285.0		1-25-66	153.6	168.4	5000		
		1-18-66	103.6	286.6		7-20-65	163.3	230.7			
		3-18-66	101.6	287.6		8-23-65	162.9	231.1			
		4-20-66	100.4	287.6		10-18-65	150.8	233.2			
		5-18-66	98.5	289.5		11-22-65	155.5	238.5			
		6-20-66	97.0	291.0		12-16-65	151.6	242.4			
		7-18-66	96.2	291.8		1-18-66	150.0	244.0			
		8-22-66	94.9	293.1		2-23-66	146.6	245.4			
		9-20-66	94.7	293.3		3-22-66	148.9	245.1			
255/27E-22H01 M	750.0	9-30-65	394.7	355.3	5001	4-20-66	169.7	244.3			
						5-18-66	167.8	241.8			
						6-20-66	160.5	243.5			
						7-18-66	157.8	246.8			
						8-22-66	151.6	252.4			
						9-20-66	150.5				
SOUTHERN SAN JOAQUIN MUD											
255/26F-13A02 M	263.0	7-20-65	□		5000	10-04-65	183.6	230.4	5001		
		8-23-65	□			1-25-66	171.6	242.4			
		9-27-65	□			7-20-65	159.5	176.5	5000		
		10-18-65	97.6	165.4							
		11-22-65	85.6	167.4							
		12-16-65	81.1	171.9							
		1-18-66	77.9	175.1							
		2-23-66	70.3	173.7							
		3-22-66	E								
		4-20-66	□								
		5-18-66	98.4	154.6							
		6-20-66	112.2	140.8							
		7-18-66	□								

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTHERN SAN JOAQUIN WUD											
265/25E-02001 M	336.0	8-23-65	166.6	169.4	5000	265/26E-10R01 M	299.3	7-20-65	5-22-67	5000	
		9-22-65	150.8	185.2				8-23-65			
		10-18-65	149.1	184.9				9-22-65		28.8	
		11-22-65	137.4	194.5				10-18-65		53.8	
		12-16-65	135.8	205.2				11-22-65		70.8	
		1-18-66	138.3	197.7				12-16-65		52.4	
		2-23-66	132.4	203.6				1-18-66		129.3	
		3-22-66	□	□				2-23-66		102.3	
		4-20-66	□	□				3-22-66		52.3	
		5-18-66	#	#				4-20-66		246.0	
265/26E-10R01 M	503.0	7-20-65	377.4	125.6	5000	265/25E-15D01 M	346.7	7-20-65			5000
		8-23-65	390.8	112.2				8-23-65			
		9-22-65	385.6	117.4				9-22-65		227.0	
		10-18-65	□	□				10-18-65		119.7	
		11-22-65	372.5	132.4				11-22-65		193.7	
		1-18-66	374.6	124.4				12-16-65		149.7	
		2-23-66	363.7	159.3				1-18-66		146.7	
		3-22-66	360.2	142.8				2-23-66		155.7	
		4-20-66	373.9	129.1				3-22-66		138.1	
		5-18-66	380.6*	122.4				4-20-66		89.7	
		6-20-66	382.7	120.3				5-18-66		105.7	
		7-18-66	392.0	111.0				6-20-66		279.0	
		8-22-66	□	□				7-18-66		67.7	
		9-20-66	□	□				8-22-66		83.7	
265/26E-16D01 M	443.0	10-04-65	301.1	141.9	5001	265/25E-15R01 M	352.3	2-01-66			5700
		1-25-66	284.8	144.2				2-01-66		170.6	
265/26E-20C01 M	411.0	7-20-65	272.5	138.5	5000	265/25E-31R01 M	336.6	2-02-66			5700
		8-23-65	281.0	130.8				2-02-66		188.1	
		9-22-65	280.2	136.1				2-01-66		233.0	
		10-18-65	270.9	134.7				7-20-65		124.0	
		11-22-65	276.3	135.6				8-23-65		274.9	
		12-16-65	275.4	135.6				9-22-65		136.1	
		1-18-66	253.5	147.0				10-18-65		120.7	
		2-23-66	251.0	160.0				11-22-65		125.2	
		3-22-66	250.6	151.4				12-16-65		131.8	
		4-20-66	□	□							
		5-18-66	269.0	142.0							
		6-20-66	□	□							
		7-18-66	□	□							
		8-22-66	□	□							
		9-20-66	280.2	130.8							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH KERN WATER STORAGE DIST											
275/25E-01N01 W											
CONT.											
275/25E-01N01 W	394.0	1-18-66	132.7	261.3	5000	285/26E-21H01 W	388.0	10-28-65	171.7	216.3	5000
		2-23-66	131.8	262.2				11-22-65	162.0	276.0	
		3-22-66	124.0	270.0				12-16-65	160.9	227.1	
		4-20-66	132.2	261.8				1-18-66	172.7	215.3	
		5-18-66	133.6	266.4				2-28-66	173.5	215.5	
		6-20-66	142.8	251.2				3-22-66	173.1	214.9	
		7-19-66	139.5	234.5				4-20-66	173.4	214.4	
		8-22-66	142.7	231.3				5-18-66	175.9	212.1	
		9-20-66	144.8	249.2				6-20-66	174.9	213.1	
275/26E-04H02 W	416.0	9-20-65	285.3	130.7	5001			7-10-66	179.3	208.7	
		1-25-66	254.5	161.5	5000			8-22-66	182.5	205.5	
		7-20-65						9-20-66	179.3	208.7	
		8-23-65						5-22-68			
		9-22-65									
SHAFTER-WASCO IRRIGATION DIST											
275/24E-01L02 W											
		10-18-65						7-20-65	269.8	52.2	5000
		11-22-65	308.5	137.0				8-23-65	273.4	48.6	
		12-16-65	310.5	135.0				9-22-65	253.4	68.4	
		1-18-66	290.8	145.7				10-18-65	232.8	89.2	
		2-23-66	290.2	155.3				11-22-65	209.0	113.0	
		3-22-66						12-16-65	197.1	124.9	
		4-20-66						1-18-66	187.1	134.9	
		5-18-66	284.5	161.0				2-23-66	191.5	130.5	
		6-20-66						3-22-66	232.1	89.9	
		7-19-66	308.0	137.5				4-20-66	248.5	73.5	
		8-22-66						5-18-66	231.3	90.7	
		9-20-66						6-20-66	281.6	40.4	
		7-21-66	280.6	155.1	5700			7-18-66	227.8	94.2	
		9-30-65	388.2	138.8	5001			9-28-65	273.8	42.2	
		1-26-66	417.0	110.0							
		2-24-66	187.1	174.0	5700			7-20-66			
		7-20-65			5000			8-23-65	258.6	116.4	
		8-23-65						9-22-65			
		10-18-65						10-18-65			
		11-22-65						11-22-65			
		12-16-65						12-16-65			
		1-18-66						1-18-66			
		11-22-66						2-23-66			
		7-20-65	166.7	221.3	5000			3-22-66			
		8-23-65	160.4	218.6				4-20-66			
		9-22-65	170.9	217.1				5-18-66			
								7-19-66			

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SHAFTER-WASCO IRRIGATION DIST											
5-22-38											
275/25F-28A01 M	375.0	8-22-66	234.4	140.6	5000	KERN RIVFR DELTA AREA					
CONT.						390.0					
285/25E-16D01 M	329.0	9-20-66	222.4	152.6	5000	5-22-40					
		7-20-65	193.2	135.8							
		8-23-65	187.9	141.1							
		9-22-65	186.0	143.0							
		10-18-65	183.7	145.3							
		11-22-65	183.9	145.1							
		12-16-65	178.9	150.1							
		1-18-66	174.4	154.6							
		2-23-66	175.0	154.0							
		3-22-66	186.6	142.4							
		4-20-66	183.5	143.1							
		5-18-66	183.5	124.5							
		9-10-66	192.8	151.2							
		8-22-66	217.5	111.5							
		9-20-66	192.0	147.0							
KERN RIVFR DELTA AREA											
5-22-40											
285/24F-23D01 M	506.0	7-20-65	190.7*	115.3	5000	295/27E-12M03 M	380.0	7-20-65	106.8	273.2	5000
		8-23-65	201.6	164.4		CONT.					
		9-22-65	201.6	164.4							
		10-18-65	198.9	107.1							
		11-22-65	196.0	110.0							
		12-16-65	192.4	113.6							
		1-18-66	190.5	115.5							
		2-23-66	187.9	118.1							
		3-22-66	189.9	116.1							
		4-20-66	199.0	107.0							
		5-18-66	196.5	109.5							
		6-20-66	200.1	105.9							
		7-19-66	199.4	106.6							
		8-22-66	207.6	98.4							
		9-20-66	205.5	100.5							
285/25E-34J01 M	326.0	9-27-65	172.0	154.0	5001	295/27E-34N01 M	385.0	7-21-65	□	271.2	5000
		2-24-66	151.1	172.9	5700	CONT.					
285/26E-29L01 M	349.0	7-20-65	157.7*	172.3	5000						
		8-23-65	157.9	172.1							
		9-22-65	157.0	173.0							
		10-25-65	155.1	174.0							

TABLE C-3 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE DEPTH IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE DEPTH IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA											
5-22+40											
305/76E-27001 W	308.5	12-01-65	66.9	241.6	5660	305/77E-34002 W	350.0	5-19-65	143.6	215.4	5000
		1-05-66	65.2	243.3				8-21-66	147.8	211.2	
		2-05-66	64.9	243.6				7-10-66	149.8	210.2	
		4-04-66	65.1	241.5				8-29-66	□		
		5-03-66	68.6	239.9				9-20-66	100.8*	258.2	
		6-03-66	61.9	240.6				9-24-65	99.9	243.1	5120
		7-01-66	□					1-20-66	97.9	240.1	
		8-08-66	70.0	238.5				9-24-65	62.2	232.3	5120
		9-06-66	71.7	236.8				1-21-66	45.2	246.3	
		10-03-66	75.3	239.2							
305/76E-16A01 W	330.1	9-27-65	78.0	261.1	5120	315/77E-06L01 W	341.1	2-10-66	114.6	226.5	5700
		1-21-66	81.0	258.1							
305/76E-27002 W	338.0	7-20-65	87.8	250.2	5000	315/77E-20H01 W	310.0	7-21-65	□		5000
		8-23-65	87.0	251.0				8-26-65	94.7	215.3	
		9-22-65	85.3	252.7				9-29-65	98.3	211.7	
		10-26-65	86.1	251.9				10-29-65	□		
		11-23-65	84.7	253.3				11-29-65	76.4	243.6	
		12-16-65	81.0	257.0				12-17-65	73.2	246.8	
		1-18-66	80.6	257.4				1-19-66	□		
		2-23-66	80.8	257.2				2-24-66	76.5	233.5	
		3-29-66	81.6	256.4				3-29-66	□		
		4-20-66	91.3	246.7				4-21-66	89.2	220.8	
		5-18-66	90.2	248.8				5-19-66	#		
		6-20-66	102.2	235.8							
		7-19-66	□					9-24-65	70.5	241.6	5120
		8-22-66	108.1	229.9				1-24-66	71.5	240.6	
		9-20-66	95.4	248.6				7-23-66	69.0	245.7	5700
305/76E-27001 W	338.7	2-03-66	81.7	257.0	5700	325/78E-30M01 W	316.7	9-22-65	89Y	201.8	5700
315/78E-34001 W	354.4	9-27-65	107.8	246.6	5001	325/76E-34G01 W	378.0	1-19-66	176.2		5700
								2-14-66	93.3	199.3	
								9-29-65	□		5001
315/78E-34002 W	350.0	7-21-65	149.1	200.9	5000	325/77E-18E01 W	292.6				
		8-23-65	149.2	200.8							
		9-23-65	139.3	219.8							
		10-28-65	126.4	226.6							
		11-23-65	136.2	222.9							
		12-17-65	134.2	224.9							
		1-19-66	130.5	228.5							
		2-24-66	131.4	227.6							
		3-23-66	145.2	213.8							
		4-20-66	142.8	216.2							
KERN RIVER DELTA AREA											
5-22+41											
						305/76E-01A01 W	323.0	9-28-65	459.7*	118.3	5001
								9-29-66	□		5001
								7-21-65	40.8	332.2	5000

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FD15CN-MADJ1C0DA 40FA					
30S/28F-17001 M	373.0	8-23-65	40.4	332.6	5000
		9-23-65	41.5	331.5	
		10-25-65	43.0	330.0	
		11-23-65	43.4	329.6	
		12-17-65	40.3	327.6	
		1-10-66	45.4	327.6	
		2-24-66	45.6	327.4	
		3-22-66	45.3	327.7	
		4-20-66	45.4	327.6	
		5-19-66	45.8	327.2	
		6-20-66	46.7	326.3	
		7-19-66	47.2	325.8	
		8-22-66	48.1	324.9	
		9-20-66	45.9	327.1	
5-22-61					
30S/28F-10N04 M	373.0	7-21-65	172.7	200.3	5000
		8-23-65	173.2	199.8	
		9-23-65	171.0	202.0	
		10-25-65	167.6	205.4	
		11-23-65	164.1	208.9	
		12-17-65	161.3	211.7	
		1-19-66	159.4	213.6	
		2-24-66	159.8	213.2	
		3-22-66	161.5	211.5	
		4-20-66	168.5	204.5	
		5-19-66	171.5	201.5	
		6-20-66	177.1	195.9	
		7-19-66	180.2	192.8	
		8-22-66	183.9	189.1	
		9-20-66	180.0	193.0	
		9-28-65	□	170.0	5050
		1-26-66	345.0		
30S/29E-26A01 M	628.0	1-24-66	470.0	158.0	5001
30S/30E-200P1 M	791.5	1-24-66	□		5001
31S/29E-09A01 M	468.0	1-24-66	□		5001
31S/29E-20A01 M	400.0	1-24-66	137.2	262.8	5001
31S/30E-21G01 M	536.0	1-24-66	387.2	148.8	5001
32S/25E-35N02 M	442.5	9-23-65	173.0	269.5	5120
FD15CN-MARIC0DA 40FA					
32S/25E-35N02 M	442.5	1-20-66	177.0	265.5	5120
32S/28E-23001 M	384.7	1-24-66	264.5	122.2	5001
32S/28E-30N04 M	303.0	7-21-65	277.8	25.2	5000
		8-24-65	289.5	13.5	
		9-23-65	267.2	35.8	
		10-25-65	252.9	50.1	
		11-23-65	229.3	73.7	
		12-17-65	236.3	72.7	
		1-19-66	222.3	80.7	
		2-24-66	221.9	81.1	
		3-23-66	240.5	62.5	
		4-21-66	253.2	49.8	
		5-19-66	260.0	43.0	
		6-21-66	275.1	27.9	
		7-19-66	290.1	12.9	
		8-22-66	301.3	1.7	
		9-21-66	□		
32S/29E-16R02 M	470.0	7-21-65	325.1	148.9	5000
		8-24-65	326.0	144.0	
		9-23-65	325.8	144.2	
		10-25-65	323.0	147.0	
		11-23-65	315.3	158.7	
		12-17-65	325.0	145.0	
		1-19-66	325.6	145.4	
		2-24-66	352.7	147.6	
		3-23-66	351.3	146.5	
		4-21-66	328.3	143.7	
		5-19-66	326.0	144.0	
		6-21-66	326.8	143.2	
		7-19-66	326.8	143.2	
		8-22-66	326.8	143.2	
		9-21-66	328.3	141.7	
32S/29E-10H02 M	416.0	7-21-65	201.9	218.3	5000
		8-24-65	201.9	218.1	
		9-23-65	201.1	214.9	
		10-25-65	200.3	215.7	
		11-23-65	190.0	226.0	
		12-17-65	177.0	238.1	
		1-19-66	193.6	222.6	
		2-24-66	201.5	218.5	
		3-23-66	199.6	216.4	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FDISON-WAPICORA AREA											
5-22+41											
325/29F-19H02 W	416.0	4-21-66	195.6	220.4	5.000	11N/20W-07003 S	679.0	7-21-65	479.0	196.0	5.000
		5-19-66	201.2	214.8				8-24-66	496.1	196.0	
		6-21-66	201.7	214.3				9-24-66	498.9	196.1	
		7-19-66	□					10-25-66	478.5	196.5	
		8-22-66	202.2	213.8				11-23-66	466.4	206.6	
		9-21-66	202.0	214.0				12-17-66	474.1	198.9	
325/29F-19H03 W	416.0	7-21-65	377.5	38.5	5.000			1-19-66	474.5	198.5	
		8-24-66	377.2	58.1				2-24-66	476.3	198.7	
		9-23-66	396.2	58.8				3-23-66	476.6	196.4	
		10-25-66	331.6	84.2				4-21-66	484.1	186.0	
		11-23-66	311.6	111.6				5-19-66	487.6	185.4	
		12-18-66	295.6	120.6				6-21-66	489.5	183.5	
		1-20-66	286.3	131.7				7-19-66	483.8	189.2	
		2-24-66	298.2	117.8				8-22-66	492.5	180.5	
		3-23-66	326.6	91.4				9-21-66	503.5	170.0	
		4-21-66	350.1	65.9				2-25-65	□	5.700	
		5-19-66	358.9	57.1				1-24-66	□	5.001	
		6-21-66	371.5	44.5				2-25-66	534.5	195.6	
		7-19-66	□					2-14-66	□	5.700	
		8-22-66	385.1	30.0				1-27-66	419.3	89.7	
		9-21-66	350.0	66.0				1-28-66	226.0	224.0	
325/29F-21001 W	473.0	7-21-65	209.4	263.6	5.000	11N/21W-05M01 S	515.9	2-14-66	□	5.700	
		8-23-65	211.0	262.0				1-27-66	419.3	89.7	
		9-23-65	209.8	263.2				1-28-66	226.1	196.9	
		10-25-65	210.9	262.1				9-22-65	320.0	103.3	
		11-23-65	198.1	274.9				1-19-66	326.0	89.3	
		12-17-65	210.2	262.8				9-23-65	279.0	219.0	
		1-19-66	208.2	264.1				1-20-66	274.0	224.0	
		2-24-66	207.6	265.4				7-21-65	□	5.000	
		3-23-66	209.8	263.2				8-24-66	91.3	146.7	
		4-21-66	210.2	264.9				9-23-65	78.5	150.5	
		5-19-66	208.1	262.8				10-25-65	70.7	167.3	
		6-21-66	208.8	264.2				11-23-65	62.7	175.3	
		7-19-66	200.5	272.5				12-17-65	60.4	177.6	
		8-22-66	208.6	264.4				1-19-66	57.5	190.5	
		9-21-66	205.6	267.4				2-24-66	□		
11N/18W-04P01 S	657.0	1-25-66	□		5.001	RUENA VISTA WATER CONTINUED					
11N/18W-24D01 S	850.0	9-28-65	139.7	710.3	5.001	275/22F-16R01 W	238.0	7-21-65	□	5.000	
		1-25-66	123.2	726.8				8-24-66	91.3	146.7	
11N/19W-04M01 S	575.9	1-25-65	□		5.001			9-23-65	78.5	150.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
RUENA VISTA WATER STORAGE DIST 5-22+42											
275/22F-16B01 M	238.0	4-21-66	93.0	145.0	5000	285/23F-31P01 M	257.8	2-04-66	30.6	227.2	5640
		5-19-66	□								
		6-21-66	97.9	140.1		285/23E-08A01 M	260.3	10-01-65	41.0	219.3	5640
		7-19-66	77.1	160.9							
		8-23-66	□								
		9-21-66	87.4	150.6		285/23E-11P01 M	263.5	7-21-65	□	204.9	5640
								8-31-65	58.6	223.5	
275/22E-21E02 M	240.0	10-01-65	39.0	201.0	5120			10-01-65	40.0	223.5	
		1-28-66	35.0	205.0				11-05-65	40.3	223.2	
								12-01-65	35.6	227.9	
275/22E-32H01 M	241.0	7-21-65	114.5	126.5	5000			1-05-66	34.8	224.7	
		8-24-65	122.8	118.2				2-05-66	66.3	197.2	
		9-23-65	125.9	115.1				3-04-66	□	212.6	
		10-25-65	121.5	119.5				4-01-66	50.8	212.7	
		11-24-65	114.2	126.8				5-01-66	50.8	212.6	
		12-17-65	110.2	130.8				6-03-66	60.3	203.2	
		1-19-66	105.5	135.5				7-01-66	□	209.9	
		2-24-66	103.5	137.5				8-08-66	67.5	196.0	
		3-23-66	135.4	127.6				9-06-66	53.6	209.9	
		4-21-66	122.5	118.5				9-07-66	#		
		5-19-66	120.2	130.8							
		6-10-66	121.1	117.9							
		7-21-66	124.1	113.9							
		8-23-66	134.3	106.7							
		9-21-66	141.4	99.6							
285/22E-09D01 M	240.0	7-21-65	19.2	220.8	5000	285/23F-27M01 M	270.0	7-21-65	□	214.6	5000
		8-24-65	18.2	221.8				8-24-65	55.4	216.7	
		9-23-65	18.3	221.7				9-23-65	53.3	216.7	
		10-25-65	18.5	221.5				10-24-65	48.2	221.8	
		11-24-65	18.4	221.6				11-23-65	47.5	222.5	
		12-17-65	18.4	221.6				12-17-65	47.0	223.0	
		1-19-66	18.4	221.6				1-19-66	46.9	223.1	
		2-24-66	18.5	221.5				2-24-66	50.0	220.0	
		3-23-66	19.8	220.2				3-23-66	54.9	215.1	
		4-21-66	20.8	219.2				4-21-66	50.6	219.4	
		5-19-66	21.4	218.6				5-19-66	49.2	220.8	
		6-21-66	21.5	218.5				6-21-66	51.8	218.2	
		7-19-66	18.8	221.2				7-20-66	53.6	216.4	
		8-23-66	24.8	215.2				8-22-66	□		
		9-21-66	22.3	217.7				9-21-66	54.2	215.8	
285/22E-10D02 M	245.0	10-01-65	27.0	218.0	5120	285/24E-32O01 M	280.7	7-00-65	□	186.6	5640
		1-28-66	24.0	221.0				8-31-65	74.1	186.6	
								10-01-65	67.8	212.9	
285/23E-31P01 M	257.8	10-01-65	46.4	211.4	5640			11-05-65	65.2	215.5	
								12-01-65	64.5	216.2	
								1-05-66	63.9	216.8	
								2-05-66	65.0	215.7	
								3-04-66	97.0	183.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
RUFNA VISTA WATER STORAGE DIST					
5-22-42					
205/226F-27001 W	280.7	4-01-66	80.4	200.3	5640
		5-03-66	74.1	206.6	
		5-04-66	#		
305/226F-01001 W	276.8	10-01-65	62.5	214.3	5640
		2-04-66	50.4		
305/226F-02001 W	287.0	10-01-65	81.5	205.5	5640
		2-04-66	82.8	204.2	
305/226F-04001 W	283.0	7-21-66	82.1	200.9	5000
		8-24-66	91.9	191.1	
		9-23-66	74.2	208.8	
		10-25-66	65.9		
		11-23-66	67.7	215.3	
		12-17-66	61.0	222.0	
		1-19-66	70.9	212.1	
		2-24-66	86.7	196.3	
		3-23-66	99.3	193.7	
		4-21-66	81.1	201.9	
		5-19-66	80.4	202.6	
		6-21-66	#		
		7-19-66	90.5	192.5	
		8-22-66	93.8	189.2	
		9-21-66	71.5*	211.5	
315/226E-27001 W	283.0	7-21-66	24.9	258.1	5000
		8-24-66	27.9	255.1	
		9-23-66	35.6	247.4	
		10-28-66	35.4	247.6	
		11-23-66	32.6	250.4	
		12-17-66	24.0	258.0	
		1-19-66	25.6	257.4	
		2-23-66	#		
		3-23-66	24.7	258.3	
		4-21-66	30.5	248.5	
		5-19-66	36.6	246.5	
		6-23-66	35.8	247.2	
		8-23-66	33.4	249.6	
		9-21-66	51.1*	221.9	
SEMITROPIC WATER STORAGE DIST					
5-22-43					
255/227E-02002 W	212.0	7-21-65	76.0	136.0	5000
		8-24-65	80.2	131.8	
		9-23-65	45.2	166.8	
		10-25-65	46.6	165.4	
		11-24-65	46.8	165.2	
		12-17-65	47.0	165.0	
		1-19-66	47.8	164.2	
		2-24-66	50.5	161.5	
		3-23-66	54.8	158.2	
		4-21-66	56.3	156.7	
		5-19-66	51.1	167.0	
		6-20-66	50.0	161.5	
		7-19-66	70.5	137.8	
		8-22-66	70.2	137.8	
		9-20-66	78.6	133.6	
255/227F-14001 W	215.0	10-05-65	#		5120
		1-20-66	161.5	53.5	
255/227F-28001 W	217.0	7-21-65	96.5	120.5	5000
		8-24-65	99.9	117.1	
		9-23-65	101.1	115.9	
		10-25-65	100.8	116.2	
		11-24-65	86.0	131.0	
		12-17-65	84.8	132.2	
		1-19-66	90.8	126.7	
		2-24-66	90.8	126.7	
		3-23-66	92.5	124.5	
		4-21-66	95.4	121.5	
		5-19-66	97.3	118.7	
		6-20-66	100.4	116.4	
		7-19-66	105.8	111.2	
		8-22-66	110.9	106.1	
		9-20-66	110.7	106.3	
255/228E-28003 W	217.0	7-21-65	224.7	- 71.7	5000
		8-24-65	244.5	- 27.6	
		9-23-65	248.4	- 11.4	
		10-25-65	248.3	- 11.3	
		11-24-65	187.3	28.5	
		12-17-65	157.9	39.6	
		1-19-66	150.3	46.7	
		2-24-66	176.8	40.2	
		3-21-66	191.1	25.9	
		4-21-66	191.1	25.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SEMITROPIC WATER STORAGE DIST 5-22-43											
265/222E-10602 M 225.0 8-24-65 □ 5000											
CONT.											
265/222E-10602 M 225.0 9-23-65 □											
265/222E-10602 M 225.0 10-24-65 □											
265/222E-10602 M 225.0 11-24-65 □											
265/222E-10602 M 225.0 12-16-65 □											
265/222E-10602 M 225.0 1-19-66 □											
265/222E-10602 M 225.0 2-24-66 73.5											
265/222E-10602 M 225.0 3-23-66 74.6											
265/222E-10602 M 225.0 4-21-66 76.1											
265/222E-10602 M 225.0 5-19-66 78.7											
265/222E-10602 M 225.0 6-10-66 86.7											
265/222E-10602 M 225.0 8-22-66 □											
265/222E-10602 M 225.0 9-20-66 □											
265/222E-10602 M 225.0 10-05-65 108.0											
265/222E-10602 M 225.0 1-28-66 111.0											
265/222E-10602 M 225.0 10-05-65 128.0*											
265/222E-10602 M 225.0 1-27-66 132.0											
265/222E-10602 M 225.0 2-02-66 160.8											
265/222E-10602 M 225.0 10-01-65 53.5											
265/222E-10602 M 225.0 1-28-66 @											
265/222E-10602 M 225.0 7-20-65 112.3											
265/222E-10602 M 225.0 8-23-65 113.4											
265/222E-10602 M 225.0 9-22-65 111.0											
265/222E-10602 M 225.0 10-18-65 110.7											
265/222E-10602 M 225.0 11-22-65 97.8											
265/222E-10602 M 225.0 12-16-65 96.4											
265/222E-10602 M 225.0 1-18-66 107.5											
265/222E-10602 M 225.0 2-23-66 111.9											
265/222E-10602 M 225.0 3-22-66 100.2											
265/222E-10602 M 225.0 4-20-66 108.0											
265/222E-10602 M 225.0 5-18-66 108.7											
265/222E-10602 M 225.0 6-20-66 109.2											
265/222E-10602 M 225.0 7-19-66 101.5											
265/222E-10602 M 225.0 8-22-66 105.4											
265/222E-10602 M 225.0 9-20-66 107.5											
265/222E-10602 M 225.0 7-20-65 270.2											
265/222E-10602 M 225.0 8-23-65 281.2											
265/222E-10602 M 225.0 9-22-65 243.3											
265/222E-10602 M 225.0 7-21-65 □											
265/222E-10602 M 225.0 5000											
SEMITROPIC WATER STORAGE DIST 5-22-43											
265/222E-10602 M 225.0 5-19-66 199.8											
265/222E-10602 M 225.0 6-20-66 225.8											
265/222E-10602 M 225.0 7-19-66 246.2											
265/222E-10602 M 225.0 8-22-66 261.6											
265/222E-10602 M 225.0 9-20-66 251.1											
265/222E-10602 M 225.0 1-27-66 92.0											
265/222E-10602 M 225.0 2-24-66 98.7											
265/222E-10602 M 225.0 3-23-66 99.6											
265/222E-10602 M 225.0 4-21-66 99.5											
265/222E-10602 M 225.0 5-19-66 89.3											
265/222E-10602 M 225.0 6-10-66 88.1											
265/222E-10602 M 225.0 7-18-66 87.5											
265/222E-10602 M 225.0 8-22-66 80.3											
265/222E-10602 M 225.0 9-20-66 87.4											
265/222E-10602 M 225.0 10-05-65 88.1											
265/222E-10602 M 225.0 1-28-66 88.8											
265/222E-10602 M 225.0 2-30-66 89.5											
265/222E-10602 M 225.0 3-22-66 89.6											
265/222E-10602 M 225.0 4-20-66 89.7											
265/222E-10602 M 225.0 5-18-66 153.4											
265/222E-10602 M 225.0 7-21-65 39.2											
265/222E-10602 M 225.0 8-24-65 39.4											
265/222E-10602 M 225.0 9-23-65 39.4											
265/222E-10602 M 225.0 10-24-65 39.6											
265/222E-10602 M 225.0 11-24-65 39.5											
265/222E-10602 M 225.0 12-17-65 39.4											
265/222E-10602 M 225.0 1-19-66 39.4											
265/222E-10602 M 225.0 2-24-66 39.4											
265/222E-10602 M 225.0 3-23-66 39.7											
265/222E-10602 M 225.0 4-21-66 39.8											
265/222E-10602 M 225.0 5-19-66 39.7											
265/222E-10602 M 225.0 6-21-66 39.8											
265/222E-10602 M 225.0 7-19-66 39.9											
265/222E-10602 M 225.0 8-23-66 40.1											
265/222E-10602 M 225.0 9-21-66 40.1											
265/222E-10602 M 225.0 10-06-65 27.0											
265/222E-10602 M 225.0 2-03-66 30.0											
265/222E-10602 M 225.0 7-21-65 □											
265/222E-10602 M 225.0 5000											

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SEMITROPIC WATER STORAGE DIST											
5-22+43											
275/23E-01R06 M	267.0	10-18-65	234.4	32.6	5.000	295/24E-14R01 M	290.0	1-28-66	119.0	172.0	5120
CONT.		11-22-65	189.7	77.3		CONT.					
		12-16-65	186.4	80.6		AVENAL-METITROPIC APFA			5-22+44		
		1-18-66	176.0	91.0		225/19E-18R02 M	245.0	3-00-66	#		5050
		2-23-66	178.2	88.8		235/18E-29R02 M	560.0	7-21-65	135.1	425.9	5.000
		3-22-66	223.5*	43.5				8-26-65	136.0	476.0	
		4-20-66	221.6	45.4				9-23-65	142.3	417.7	
		5-18-66	□					10-28-65	137.5	425.5	
		6-20-66	258.6	8.4				11-24-65	134.5	425.5	
		7-19-66	263.5	3.5				12-17-65	134.4	425.6	
		8-23-66	277.9	- 10.9				1-19-66	134.6	425.4	
		9-20-66	265.5	1.5				2-24-66	134.3	425.7	
								3-21-66	134.5	425.4	
275/23E-06L01 M	258.0	10-01-65	53.0	205.0	5120			4-21-66	134.5	425.4	
		1-28-66	41.0	217.0				5-19-66	134.3	425.7	
								6-21-66	134.8	425.2	
285/23E-11F01 M	255.0	8-31-65	32.0	223.0	5640			7-20-66	135.0	425.0	
		10-01-65	33.5	221.5		295/19E-14R01 M	248.0	8-23-66	133.4	425.5	5050
		11-05-65	33.5	221.5				9-21-66	134.4		
		12-01-65	33.8	221.2				11-08-65	□	104.0	
		1-05-66	31.7	223.3				12-08-65	41.0	104.0	
		2-05-66	32.0	223.0				2-00-66	40.5	104.5	
		3-04-66	32.7	222.3				3-02-66	40.5	104.5	
		4-01-66	32.2	222.8				4-26-66	30.2	105.8	
		5-03-66	32.2	222.8				5-29-66	40.5	104.5	
		7-01-66	35.1	219.9				7-05-66	40.7	104.3	
		8-08-66	34.6	220.4				8-01-66	42.4	102.6	
		9-04-66	32.8	222.2				9-02-66	40.5	104.5	
								11-08-65	□		5050
285/24E-28A01 M	301.1	7-21-65	□		5640			12-08-65	70.5	106.5	
		8-30-65	□					1-28-66	74.3	102.7	
		10-01-65	180.5	120.6				2-04-66	69.1	107.0	
		11-05-65	184.5	116.6				3-02-66	71.0	106.0	
		12-01-65	180.5	120.5				4-26-66	75.0	102.0	
		1-05-66	173.8	127.3				5-31-66	73.0	104.0	
		2-05-66	171.3	129.8				7-05-66	71.3	105.7	
		3-04-66	182.5	118.6				8-01-66	69.3	107.7	
		4-01-66	□					8-30-66	73.5	103.5	
		5-03-66	□								
		6-03-66	□								
		7-01-66	□								
		8-08-66	□								
		9-02-66	188.5	112.6							
295/24E-14R01 M	290.0	9-28-65	114.0	176.0	5120						

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
AVENAL-MCKITTRICKY AREA											
245/18F-30001 M	699+0	3-0-66	#	5120	5050	285/22E-20001 M	290+0	2-04-66	5-22+44	239+9	5050
255/19E-15001 M	422+0	2-15-66	105+0	317+0	5120	CONT.		3-03-66		240+5	
265/19E-20002 M	480+0	7-21-65	196+6	347+4	5000			4-20-66		240+4	
		8-24-65	132+3	347+7				5-31-66		239+5	
		9-23-65	132+7	347+3				7-05-66		239+0	
		10-25-65	133+1	346+9				8-01-66		238+5	
		11-24-65	133+1	346+9				8-30-66			
		12-17-65	132+8	347+2							
		1-19-66	132+4	347+6							
		2-24-66	133+7	346+3							
		3-23-66	□								
		4-21-66	136+1	343+9							
		5-19-66	133+6	346+4							
		6-21-66	132+9	347+1							
		7-20-66	132+0	347+1							
		8-23-66	143+3	346+7							
		9-21-66	□								
265/20E-04001 M	288+0	10-06-65	□	5120							
		2-15-66	□								
265/17E-13102 M	910+0	10-07-65	162+5	781+5	5120						
		2-15-66	146+5	783+5							
265/18F-14001 M	685+0	10-07-65	168+0	517+0	5120						
		2-15-66	168+0	517+0							
265/18F-19802 M	875+0	10-07-65	157+0	718+0	5120						
		2-15-66	163+0	712+0							
265/18F-27001 M	730+0	10-06-65	□	501+8	5120						
		2-04-66	228+2								
265/19E-12101 M	630+0	10-06-65	205+0	325+0	5120						
		2-15-66	205+0	325+0							
275/18F-14801 M	1220+0	10-05-65	38+0	1182+5	5120						
		2-04-66	37+5	1182+5							
285/22E-20001 M	290+0	11-10-65	40+2	240+8	5050						
		12-02-65	53+8	236+2							
		12-29-65	55+7	234+3							
TULARE LAKE-LOST HILLS AREA											
		7-22-65	186+7	-	5000						
		8-24-65	193+3	-							
		9-24-65	192+7	-							
		10-26-65	186+2	-							
		11-26-65	181+0	-							
		12-27-65	181+2	-							
		1-20-66	168+0	-							
		2-24-66	□								
		3-24-66	163+4	17+6							
		4-22-66	191+7	15+6							
		5-21-66	178+0	3+0							
		7-20-66	192+2	-							
		8-24-66	205+3	-							
		9-21-66	227+4	-							
		7-22-65	205+5	-							
		8-24-65	206+1	-							
		9-24-65	205+4	-							
		10-26-65	206+1	-							
		11-26-65	198+6	-							
		12-27-65	201+7	-							
		1-20-66	195+3	-							
		2-24-66	194+1	-							
		3-24-66	189+9	-							
		4-22-66	190+6	-							
		5-20-66	188+5	-							
		6-21-66	194+2	-							
		7-20-66	215+4	-							
		8-23-66	237+4	-							
		9-21-66	245+2	-							
		5-02-66	146+5	39+0							
		6-01-66	□								
		225/21E-01001 M	185+5								

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE LAKELAND HILLS AREA											
5-22+45											
225/21F-01J01 W CONT.	185.5	7-01-66	□	190.4	5050	215/22F-16L02 W	196.5	7-29-65	5-22+46	46.5	5050
		9-29-66	□	189.7				8-30-65		139.6	
		9-02-66	□					10-01-65		148.0	
265/21F-15J01 W	211.0	2-14-66	20.6	190.4	5050			11-02-65		149.6	
		5-03-66	21.3	189.7				11-30-65		151.8	
		5-27-66	□					12-29-65		153.5	
		7-01-66	□					1-29-66		154.0	
		7-29-66	24.7	191.3				3-01-66		153.5	
		9-02-66						3-29-66		152.0	
265/21F-26D01 W	210.0	5-03-66	21.8	188.2	5050			5-02-66		145.0	
		5-27-66	26.0	194.0				5-27-66		149.0	
		7-01-66	23.3	186.7				7-01-66		141.0	
		7-29-66	19.0	191.0				9-02-66		146.0	
		9-02-66	22.0	188.0							
265/21F-22H01 W	217.0	7-21-65	116.5	100.5	5000	215/22F-21D01 W	197.0	2-14-66	□	48.3	5050
		8-24-65	116.8	100.2				5-02-66	143.7		
		9-23-65	120.7	96.3				5-27-66	144.4	47.6	
		10-28-65	125.1	91.9				7-01-66	□		
		11-28-65	124.7	92.3				7-29-66	□		
		12-17-65	123.0	94.0				9-02-66	□		
		1-19-66	121.1	95.9							
		2-28-66	118.8	98.2							
		3-23-66	118.0	99.0							
		3-28-66	#								
265/21F-30K01 W	237.5	11-09-65	36.2	201.3	5050	215/22F-27A01 W	196.0	7-29-65	30.5	165.5	5050
		5-31-66	36.8	206.7				8-30-65	30.7	163.8	
		7-05-66	36.8	206.7				10-02-65	28.2	167.6	
		8-01-66	36.5	201.0				11-30-65	27.0	169.0	
		8-30-66	39.5	199.0				12-29-65	26.4	169.4	
								1-29-66	25.5	170.5	
								3-01-66	28.2	167.8	
								3-29-66	26.5	169.5	
								5-02-66	27.7	168.3	
								5-27-66	27.5	168.5	
								7-01-66	28.5	167.5	
265/21F-22D01 W	201.0	11-09-65	□	217.5	5050			7-29-66	29.0	167.0	
		12-02-65	63.5					9-02-66	33.5	162.5	
		12-29-65	□								
		2-06-66	□								
		3-03-66	75.5	205.5							
		3-31-66	75.5	205.5							
		4-29-66	75.5	205.5							
		5-31-66	81.5	199.5							
		7-05-66	75.5	205.5							
		8-01-66	75.7	205.3							
		8-30-66	79.5	201.5							
CORCORAN IRRIGATION DISTRICT											
225/22F-01B02 W	201.0	7-29-65	21.3	179.7	5050	215/22F-34A01 W	205.0	5-27-66	143.5	41.5	5050
		8-30-65	□					7-01-66	167.0	47.0	
		10-01-65	□					9-02-66	□	32.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CORCORAN IRRIGATION DISTRICT											
5-22-66											
225/22E-01B02 M	201.0	11-02-65	19.4	181.6	5050	225/22E-15C01 M	191.0	7-29-66	162.5	28.5	5050
		12-28-65	19.0	182.0				9-02-66	173.5	17.5	
		1-28-66	24.5	176.5					5-22-67		
		3-01-66	19.8	181.2							
		3-29-66	19.0	182.0							
		5-02-66	18.0	183.0							
		5-27-66	19.0	182.0							
		7-01-66	19.5	181.5							
		7-29-66									
		9-02-66									
CORCORAN IRRIGATION DISTRICT											
5-22-66											
225/22E-05L01 M	188.0	7-29-65			5050	135/13F-10B01 M	211.0	12-20-65	@		5001
		8-30-65						10-06-65	6.0	177.0	5001
		10-01-65						4-29-66			
		11-02-65									
		12-28-65									
		1-28-66									
		3-01-66									
		3-29-66	136.5	51.5							
		5-02-66	141.3	46.7							
		5-27-66	147.7	40.3							
		7-01-66									
		7-29-66									
		9-02-66	200.0	12.0							
CORCORAN IRRIGATION DISTRICT											
5-22-66											
225/22E-13B01 M	193.0	2-08-66	18.0	175.0	5050	145/14F-09J01 M	164.0	10-07-65	DBV	152.4	5001
		5-02-66	16.9	176.1				5-03-66	11.6		5050
		5-27-66	16.8	175.2							
		7-01-66	19.0	174.0							
		7-29-66	17.3	175.7							
		9-02-66	18.1	174.9							
CORCORAN IRRIGATION DISTRICT											
5-22-66											
225/22E-15C01 M	191.0	7-29-65	147.1	43.9	5050	145/14F-05H01 M	221.0	10-00-65		112.2	5001
		8-30-65	156.3	36.7				2-11-66	48.8		
		10-01-65	156.7	36.3							
		11-02-65	135.8	36.0							
		1-28-66	147.8	40.2							
		1-28-66	142.0	40.5							
		3-01-66	144.2	50.4							
		3-29-66	135.0	56.0							
		5-02-66	140.5	50.5							
		5-27-66	130.3	51.7							
		7-01-66	155.0	36.0							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HUDON AREA					
5-22+47					
155/16E-15E01 M	246.0	6-22-66	56.2	179.8	5000
		7-20-66	50.6	183.4	
		8-24-66	53.9	180.1	
		9-22-66	54.8	179.2	
155/16E-15F04 M	236.0	7-22-65	427.0	101.0	5000
		8-26-65	430.4	203.4	
		9-24-65	427.6	191.6	
		10-28-65	421.8	185.8	
		11-28-65			
		12-22-65	397.7	161.7	
		1-20-66	391.4	155.4	
		2-28-66	391.4	155.4	
		3-28-66	395.7	160.7	
		4-27-66	418.9	182.9	
		5-20-66	426.5	190.5	
		6-27-66	439.6	203.6	
		7-20-66	428.9	192.9	
		8-24-66	441.4	205.4	
		9-22-66	436.5	200.5	
155/15E-22001 M	176.0	2-14-66	97.0	79.0	5001
155/16E-17L01 M	165.0	7-22-65	35.8	129.2	5000
		8-28-65	36.0	129.0	
		9-24-65	35.1	129.9	
		10-28-65	35.5	129.5	
		11-28-65	35.4	129.6	
		12-22-65	35.2	129.8	
		1-20-66	35.2	129.8	
		2-28-66	35.9	129.1	
		3-28-66	39.0	126.0	
		4-27-66	37.6	127.4	
		5-20-66	37.7	127.3	
		7-22-66	38.9	177.1	
		8-20-66	38.0	176.0	
		9-22-66	38.7	126.3	
155/16E-20001 M	170.0	10-19-65	77.0	93.0	5001
		2-15-66	54.5	105.5	
155/16E-28A04 M	149.0	7-22-65	176.4	7.4	5000
		8-28-65	179.3	10.3	
		9-28-65	180.9	11.9	
MENDOTA-HUDON AREA					
5-22+47					
155/16E-28A04 M	149.0	10-26-65	180.8	11.8	5000
		11-26-65	178.7	9.7	
		12-22-65	175.6	4.0	
		1-20-66	173.0	4.0	
		2-28-66	169.8	2.8	
		3-28-66	171.8	4.9	
		4-27-66	173.9	5.9	
		5-20-66	177.8	6.8	
		6-22-66	177.8	6.8	
		7-22-66	181.9	11.9	
		8-24-66	181.0	11.0	
		9-22-66	185.1	15.1	
155/16E-34F01 M	172.0	8-28-65	200.0	28.0	5000
		9-23-65	213.9	31.9	
		10-19-65	203.4	31.4	
		11-16-65	199.2	27.2	
		12-20-65	195.6	23.6	
		1-13-66	192.8	20.8	
		2-15-66	189.2	17.2	
		3-15-66	193.3	21.3	
		4-12-66	195.2	23.2	
		5-11-66	200.4	28.4	
		6-07-66	198.4	26.4	
		7-06-66	204.2	32.2	
		8-02-66	198.4	26.4	
		8-30-66	183.3	11.3	
		9-27-66	163.9	4.1	
165/14E-16A01 M	408.0	8-27-65	797.0	209.0	5000
		9-23-65	764.0	266.0	
		10-19-65	770.4	272.4	
		11-28-65	753.0	265.0	
		12-18-66	788.0	280.0	
		1-19-66	760.0	252.0	
		2-16-66	762.6	254.6	
		3-12-66	756.5	250.5	
		4-10-66	730.8	232.8	
		5-10-66	731.9	233.9	
		6-09-66	751.0	253.0	
		7-06-66	744.9	246.9	
		8-02-66	744.9	246.9	
		8-30-66	731.5	233.5	
		9-26-66	711.6	213.6	
165/15E-02A02 M	219.0	2-10-66	81.3	137.7	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HIRON AREA											
5-22-47											
165/16F-10N01 M	187.0	2-10-66	122.9	64.1	5001	185/18F-07N01 M	429.0	8-25-65	DRY		5000
						(CONT.)		10-08-66	#		
175/14F-13N01 M	457.0	12-13-65	744.6	- 287.6	5050	185/17F-12N01 M	253.0	12-16-65	359.0	- 106.0	5050
175/16F-02E01 M	218.0	2-03-66	203.0	15.0	5001	195/17F-35N01 M	305.0	12-15-65	□		5050
175/16F-24N01 M	292.5	1-26-65	189.2	43.3	5050	195/17F-35N01 M	356.0	8-25-65	495.2	- 139.2	5000
		2-25-66	166.9	65.6				9-23-65	458.4	- 102.4	
								10-20-65	463.2	- 107.2	
								11-26-65	471.0	- 115.0	
175/16F-30N03 M	200.0	7-22-65	67.1	222.0	5000			12-00-65	#		5050
		8-25-65	67.2	222.8		195/18F-15N01 M	274.0	12-16-65	366.0	- 90.0	
		9-24-65	63.6	226.4		195/18F-27N01 M	281.0	12-17-65	351.0	- 70.0	5000
		10-24-65	65.9	229.1		205/18F-11N01 M	277.0	12-15-65	436.0	- 159.0	5050
		11-26-65	60.5	229.5		205/18F-11N01 M	270.0	8-25-65	464.7	- 195.7	5000
		12-22-65	60.7	229.3				9-23-65	470.5	- 200.5	
		2-25-66	65.7	224.3				10-20-65	468.7	- 199.7	
		3-24-66	65.6	224.3				11-23-65	□		
		4-23-66	65.6	224.4				12-16-65	436.7	- 166.7	
		5-19-66	65.5	224.5				1-12-66	423.6	- 153.6	
		6-22-66	66.0	224.0				2-16-66	439.4	- 169.4	
		7-20-66	66.0	224.0				3-16-66	436.2	- 166.2	
		8-24-66	66.0	224.0				4-13-66	459.3	- 189.3	
		9-22-66	65.8	226.2				5-11-66	452.2	- 182.2	
								6-08-66	449.1	- 179.1	
								7-06-66	469.9	- 186.3	
								8-03-66	466.6	- 186.6	
								8-30-66	476.5	- 206.9	
								9-27-66	474.6	- 204.0	
175/16F-30N05 M	280.0	7-22-65	464.4	- 156.4	5000	205/18F-34N01 M	260.0	10-26-65	296.6	- 36.6	5050
		8-25-65	450.0	- 160.0				2-28-66	289.3	- 29.3	
		9-24-65	422.5	- 132.5				2-16-66	DRY		5050
		10-24-65	429.4	- 130.4				2-16-66	189.0	381.0	5050
		11-26-65	428.1	- 138.1				2-16-66	230.0	404.0	5050
		1-22-65	406.5	- 116.5				2-16-66	318.0	364.0	5050
		1-20-66	389.9	- 99.9							
		2-25-66	401.2	- 111.2							
		3-24-66	386.4	- 96.4							
		4-20-66	390.1	- 100.1							
		5-19-66	398.2	- 105.2							
		5-22-66	387.0	- 97.0							
		7-20-66	385.1	- 95.1							
		8-24-66	402.5	- 112.5							
		8-30-66	#								
175/17F-21N02 M	226.0	1-19-65	275.3	- 49.3	5050	215/16F-07N01 M	634.0	2-16-66	189.0	381.0	5050
		2-15-66	261.0	- 15.0		215/16F-02N01 M	623.0	2-16-66	DRY		5050
						215/16F-02N01 M	623.0	2-16-66	189.0	381.0	5050
						215/16F-07N01 M	634.0	2-16-66	230.0	404.0	5050
						215/16F-35N01 M	682.0	2-16-66	318.0	364.0	5050
185/15E-02N01 M	420.0	7-22-65	□								

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HUDON AREA 5-22+47					
215/17E-06M01 W	526.0	2-15-66	□	5050	5050
215/17E-11F01 W	413.0	12-17-65	□	5050	5050
215/17E-24G01 W	425.0	12-14-65	□	5050	5050
215/18E-03M01 W	278.0	12-13-65	#	5050	5050
215/18E-28M02 W	363.0	10-26-65	339.0	5000	5000
		2-24-66	335.0	28.0	
225/16E-12F01 W	787.0	2-16-66	□	5050	5050
DODD SOIL CONSERVATION DISTRICT 5-22+48					
115/13E-06M01 W	117.0	7-03-65	13.1	96.9	5529
		8-06-65	11.4	98.6	
		9-08-65	10.9	99.1	
		10-07-65	9.6	100.4	
		11-04-65	10.0	100.0	
		12-06-65	9.0	101.0	
		1-03-66	10.2	98.8	
		2-02-66	10.1	98.8	
		3-02-66	10.1	98.8	
		4-02-66	10.4	98.6	
		5-02-66	9.5	100.5	
		7-02-66	8.7	101.3	
		8-06-66	8.6	101.4	
		9-06-66	8.3	101.7	
		7-03-65	13.0	104.0	5529
		8-06-65	11.2	105.8	
		9-08-65	11.2	105.8	
		10-07-65	10.2	106.8	
		11-04-65	10.7	106.3	
		12-06-65	8.8	108.2	
		1-03-66	12.0	105.0	
		2-02-66	10.3	106.7	
		3-08-66	12.0	105.0	
		4-06-66	10.9	106.1	
		5-02-66	12.1	104.0	
		6-03-66	13.7	103.3	
		7-02-66	12.8	104.2	
		8-05-66	14.3	100.7	
DODD SOIL CONSERVATION DISTRICT 5-22+48					
115/13E-05M01 W	117.0	9-04-66	16.0	101.0	5529
115/13E-26M01 W	126.0	7-03-65	7.5	118.5	5529
		8-06-65	7.3	118.7	
		10-05-65	7.0	119.2	
		11-04-65	11.7	114.3	
		12-06-65	11.0	115.0	
		1-03-66	10.2	115.8	
		2-02-66	11.5	114.5	
		3-08-66	9.9	116.5	
		4-06-66	12.0	114.0	
		5-02-66	8.5	117.5	
		6-03-66	8.1	117.9	
		7-02-66	12.0	114.0	
		8-05-66	12.7	113.3	
		9-04-66	9.8	116.2	
DODD SOIL CONSERVATION DISTRICT 5-22+48					
115/13E-13J01 W	140.0	7-03-65	7.7	132.3	5529
		8-06-65	7.5	132.5	
		9-08-65	8.5	131.5	
		10-07-65	10.0	130.0	
		11-04-65	10.3	129.7	
		12-06-65	9.6	130.4	
		1-03-66	8.2	131.8	
		2-02-66	10.0	130.0	
		3-08-66	7.5	132.5	
		4-06-66	7.7	132.3	
		5-02-66	8.3	131.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PISO COTIL CONSERVATION DISTRICT 5-22-68					
125/112F-13J01 M	140.0	6-02-66	8.4	131.6	5829
		7-02-66	9.5	130.5	
		8-05-66	10.3	129.3	
		9-05-66	10.7	129.3	
TEPPA BELLA IRRIGATION DISTRICT 5-22-50					
225/275-25J03 M	532.0	7-27-65	115.5	416.5	5001
		8-28-65	112.6	419.4	
		9-22-65	114.9	417.1	
		10-27-65	116.0	416.0	
		11-22-65	112.7	419.3	
		12-22-65	107.7	424.3	
		1-18-66	106.3	425.7	
		2-23-66	102.2	429.8	
		3-23-66	103.6	428.4	
		4-28-66	98.5	433.5	
		5-28-66	96.0	436.0	
		6-28-66	95.8	436.2	
		7-28-66	96.5	435.5	
		8-28-66	96.4	435.6	
		9-28-66	101.7	430.3	
235/275-01A01 M	506.0	4-28-66	89.0	423.0	5001
		5-28-66	89.8	422.2	
		6-28-66	86.0	422.0	
		7-28-66	84.5	421.5	
		8-28-66	84.9	421.1	
		9-28-66	89.1	420.9	
235/275-10A01 M	518.0	4-28-66	220.0	398.0	5001
		5-28-66	231.8	386.2	
		6-28-66	243.0	376.0	
		7-28-66	241.6	376.4	
		8-28-66	246.5	375.5	
		9-28-66	246.3	371.7	
MERCED BOTTOMS 5-22-54					
75/112F-23K01 M	800.0	1-04-66	4.5	795.5	5050
		2-03-66	5.3	74.7	
		3-03-66	4.3	75.7	
		4-05-66	5.3	74.7	
		5-03-66	6.4	73.6	
		6-02-66	9.7	70.8	
		7-07-66	12.5	67.5	
		7-08-66	#		
75/112F-23K02 M	800.0	7-06-65	6.1	79.9	5050
		8-04-65	6.0	78.0	
		9-07-65	5.6	74.4	
		10-04-65	5.9	74.1	
		11-04-65	4.0	74.0	
		12-02-65	4.1	75.9	
		1-04-66	3.0	77.0	
		2-03-66	3.1	76.9	
		3-03-66	3.7	76.3	
		4-05-66	□		
		5-03-66	4.9	75.1	
		6-02-66	5.8	75.2	
		7-07-66	6.2	75.8	
		8-03-66	7.5	72.5	
		9-07-66	□		
75/112F-27E01 M	110.5	7-06-66	8.7	101.8	5050
		8-07-66	10.1	100.4	
		9-07-66	10.1	100.4	
75/112F-10D01 M	800.0	7-08-66	15.6	784.4	5050
		8-02-66	19.0	71.0	
		9-07-66	20.7	69.3	
75/112F-10D01 M	220.0	7-08-66	□		5050
		8-02-66	□		
		9-07-66	107.9	112.1	
75/112F-01C01 M	110.5	7-06-66	46.1	64.4	5050
		8-02-66	□		
		9-07-66	□		
75/112F-01D01 M	180.0	7-08-65	85.6	94.4	5050
		8-03-65	96.9	83.1	
		9-07-65	99.0	81.0	
		10-07-65	84.3	95.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED BOTTOMS											
5-22-54											
95/16F-01801 W CONT.	180.0	11-04-65	70.1	109.9	5050	125/20F-18A01 W	388.0	12-01-65	116.5	271.5	5001
		12-03-65	62.1	117.9				1-04-66	115.2	272.9	
		1-05-66	57.0	123.0				3-02-66	115.0	273.0	
		3-05-66	52.4	122.7				4-02-66	116.1	271.9	
		4-08-66	67.6	112.4				5-01-66	121.4	266.5	
		5-03-66	89.2	97.1				6-01-66	118.6	269.4	
		6-02-66	81.9	90.8				7-02-66	121.3	266.7	
		7-06-66	97.7	82.3				8-02-66	122.5	265.5	
		8-02-66	#					9-02-66	□		
95/16F-01807 W	180.0	7-06-65	84.5	95.5	5050	125/20F-07A02 W	405.5	7-02-65	159.7	235.8	5001
		8-01-65	92.2	87.8				8-02-65	168.1	237.4	
		9-07-65	93.9	86.1				9-01-65	167.1	238.4	
		10-07-65	81.0	99.0				10-01-65	164.0	239.5	
		11-04-65	68.1	111.0				11-01-65	164.9	240.5	
		12-03-65	55.5	119.5				12-01-65	163.7	241.8	
		1-05-66	55.6	124.4				1-04-66	160.1	245.4	
		2-02-66	53.1	126.9				2-02-66	158.9	246.6	
		3-03-66	51.5	128.5				3-02-66	160.2	248.2	
		4-04-66	66.2	113.8				4-03-66	157.5	247.0	
	5-03-66	80.4	98.6			5-01-66	157.8	247.7			
	6-02-66	86.3	93.7			7-01-66	145.9	250.3			
	7-06-66	93.1	86.9			8-02-66	154.2	251.3			
	8-02-66	#				9-02-66	156.6	250.1			
95/16F-01803 W	180.0	7-06-65	37.0	143.0	5050	125/20F-18A03 W	390.5	7-02-65	111.0	278.5	5001
		8-01-65	37.2	142.8				8-02-65	106.3*	284.2	
		9-07-65	37.7	142.3				9-01-65	111.5	279.0	
		10-07-65	38.1	141.8				10-01-65	112.7	277.8	
		11-06-65	38.2	141.9				11-01-65	110.3	280.2	
		12-03-65	38.2	141.9				12-01-65	110.3	280.7	
		1-05-66	38.2	142.0				1-04-66	108.5	282.0	
		2-02-66	38.0	142.0				2-02-66	107.6	282.9	
		3-04-66	38.3	141.7				3-02-66	108.2	282.3	
		5-03-66	38.6	141.6				4-03-66	□		
	6-02-66	38.7	141.3			5-01-66	109.0	281.5			
	7-07-66	39.0	141.0			6-01-66	110.7	279.8			
	8-02-66	39.5	140.5			7-02-66	109.7	280.8			
	9-07-66	39.5	140.5			8-02-66	□				
						9-02-66	112.6	277.9			
95/16F-06001 W	61.0	7-06-65	40.2	0.8	5050						
		8-02-65	40.4	0.6							
		9-07-65	40.8	0.2							

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KINGS COUNTY WATER DISTRICT					
175/20F-94902 W	243.0	8-30-65	224.3	220.7	5129
		5-01-66	18.8	224.7	
		5-29-66	19.4	223.6	
		6-26-66	18.3	224.7	
		7-31-66	22.3	222.4	
		9-04-66	19.8	223.2	
175/22F-11001 W	243.0	8-30-65	20.9	253.1	5129
		5-01-66	27.7	255.3	
		5-29-66	27.7	255.3	
		6-26-66	37.0	251.0	
		7-31-66	32.2	250.8	
		9-04-66	30.7	252.3	
175/22F-34001 W	246.0	8-30-65	44.9	221.1	5129
		5-01-66	44.4	221.6	
		5-29-66	45.0	221.0	
		6-26-66	47.3	218.7	
		7-31-66	49.3	215.7	
		9-04-66	50.1	215.9	
185/21F-17001 W	248.0	5-01-66	13.7	226.3	5129
		5-29-66	12.5	226.5	
		6-26-66	17.5	223.5	
		7-31-66	14.7	223.3	
		9-04-66	14.7	224.8	
185/22F-21001 W	248.0	5-01-66	81.5	176.5	5129
		5-29-66	82.7	175.3	
		6-26-66	84.3	173.7	
		7-31-66	□		
		9-04-66	86.1	171.9	
185/24F-28001 W	243.0	5-01-66	□		5129
		5-29-66	□		
		6-26-66	105.1	157.9	
		7-31-66	109.3	153.7	
		9-04-66	□		
195/21F-20001 W	225.0	5-01-66	18.0	207.0	5129
		5-29-66	18.2	206.8	
		6-26-66	18.2	206.8	
		7-31-66	19.6	205.4	
		9-04-66	20.8	204.2	
195/22F-04001 W	245.0	5-01-66	91.2	153.8	5129

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KINGS COUNTY WATER DISTRICT					
195/22F-04001 W	245.0	5-29-66	92.1	152.9	5129
		6-26-66	93.9	151.1	
		7-31-66	109.2	145.8	
		9-04-66	□		
195/22F-23001 W	240.0	5-01-66	94.1	161.9	5129
		5-29-66	101.0	139.0	
		6-26-66	106.5	133.5	
		7-31-66	□		
		9-04-66	103.9	136.1	
205/21F-03001 W	222.0	10-14-65	18.9	203.1	5001
		2-25-66	18.7	203.3	
205/21F-04001 W	219.0	5-01-66	176.2	42.8	5129
		5-29-66	179.3	39.7	
		6-26-66	□		
		7-31-66	191.9	27.1	
		9-04-66	194.7	24.3	
205/22F-10002 W	225.0	5-01-66	149.9	35.1	5129
		5-29-66	152.1	32.9	
		6-26-66	170.3	45.8	
		7-31-66	178.2	37.8	
		9-04-66	199.1	25.9	
PLEASANT VALLEY ADFA					
205/15F-25001 W	619.0	2-17-66	215.0	404.0	5050
205/15F-32001 W	675.0	2-17-66	232.0	443.0	5050

APPENDIX D
SURFACE WATER QUALITY



INTRODUCTION

Appendix D summarizes the surface water quality, electrical conductivity and temperature data for the San Joaquin District for 1966 water year (October 1, 1965, through September 30, 1966). These data were obtained from analyses of water samples from 34 surface water quality sampling stations, eight electrical conductivity recorders and two temperature recorders. Water samples are collected by the Department of Water Resources, the U. S. Corps of Engineers, and Kern County Parks and Recreation. Electrical conductivity and temperature recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The third digit indicates the stream and the next three integers designate the relative number of the station on the stream system.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

The last two digits denotes the location of the sampling station relative to a gaging station as shown below.

- .00 Sampled at gage station
- .02 Sampled upstream within one mile of gage station
- .98 Sampled downstream within one mile of gage station
- .05 Sampled more than one mile from gage station

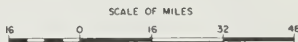
TABLE D-1
 SAMPLING STATION DATA AND INDEX
 FOR
 SURFACE WATER

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Delta-Mendota Canal (20)	00000	11/11E-1	July 1957	M	DWR	261,299,317
Delta-Mendota Canal near Raymond (14)	00000	10/11E-1	January 1957	M	DWR	262,299,313
Delta-Mendota Canal near Mendota (20)	00000	11/11E-19	July 1957	M	DWR	263,297,303
Delta-Mendota Canal near Tracy (13)	00000	10/11E-20	July 1957	M	DWR	264,299,313
Fresno River near Leulton (113)	01150	10/11E-34	January 1957	M	DWR	265,299,313
Kaweah River below Terminus Dam (25)	01150	09/11E-1	September 1957	M	USACE	266,299,314
Kaweah River at Three Rivers (25b)	01150	09/11E-20	April 1951	M	DWR	267,299,318
Kern River near Bakersfield (37)	00010	08/11E-10	April 1951	M	KCFR	265,299,316
Kern River below Isabella Dam (36a)	00010	01/11E-3	September 1957	M	USACE	269,299,320
Kern River near Kernville (36b)	01500	01/11E-11	September 1957	M	USACE	270,300,320
Kings River below North Fork (33c)	01140	01/11E-1	September 1957	M	USACE	271,299,318
Kings River below Peoples Weir (34)	01140	10/11E-1	April 1951	M	DWR	272,299,313
Kings River near Pine Flat Dam (35b)	01140	13/11E-1	September 1957	M	USACE	273,299,316
Merced River below Exchequer Dam (32a)	01140	10/11E-12	April 1956	M	DWR	274,298,312
Merced River above Lake McClure (32b)	01140	10/11E-36	March 1956	M	DWR	275, 312
Merced River near Stevenson (3)	01125	08/11E-30	April 1951	M	DWR	276,297,306
Salt Slough at Van Lom's Ranch (1)	00000	08/11E-7	November 1957	M	DWR	277,297,303
San Joaquin River at "Cross Landing" Bridge (26b)	00000	08/11E-7	January 1956	M	DWR	278,298,309
San Joaquin River at Fremont Ford Bridge (26a)	00000	08/11E-4	July 1955	M	DWR	279,298,310
San Joaquin River at Friant Dam (24)	00000	11/11E-7	April 1951	M	DWR	280,298,311
San Joaquin River near Grayson (5)	00000	10/11E-24	April 1959	M	DWR	281,298,308
San Joaquin River at Maze Road Bridge (26a)	00000	10/11E-22	April 1951	M	DWR	282,298,307
San Joaquin River near Mendota (28)	00000	13/11E-10	April 1951	M	DWR	283,298,310
San Joaquin River at Patterson Bridge (27a)	00000	10/11E-15	January 1956	M	DWR	284,298,308
San Joaquin River near Vernalis (27)	00000	10/11E-13	April 1951	M	DWR	285,297,306
Stanislaus River at Kostitz (29)	00000	10/11E-2	April 1951	M	DWR	286,297,304
Stanislaus River above Melones Reservoir (29b)	03120	20/11E-2	March 1956	M	DWR	287,298,311
Stanislaus River below Tulloch Dam (29a)	03120	15/12E-1	July 1956	M	DWR	288,298,312
Tule River near Springville (91b)	03115	215/20E-15	November 1952	M	USACE	289,299,319
Tule River below Success Dam (91)	03195	215/20E-35	July 1957	M	USACE	290,299,315
Tuolumne River above Don Pedro Reservoir (31b)	041265	10/11E-20	March 1956	M	DWR	291,298,312
Tuolumne River below Don Pedro Dam (31a)	04100	38/14E-20	April 1951	M	DWR	292,298,312
Tuolumne River at Hickman Bridge (30)	04150	38/11E-34	April 1951	M	DWR	293,297,305
Tuolumne River at Tuolumne City (31)	04105	48/11E-12	April 1951	M	DWR	294,297,304

a. Locations are in reference to Mt. Diablo Base and Meridian
 b. Beginning of record
 c. M - Monthly, Q - Quarterly, C - Semiannually
 d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers, KCFR - Kern County Parks and Recreation
 e. Recorder stations are indicated with (R) or (R,T); (R) indicates conductivity recorder, (R,T) indicates conductivity and temperature; Daily mean values are shown on figures.

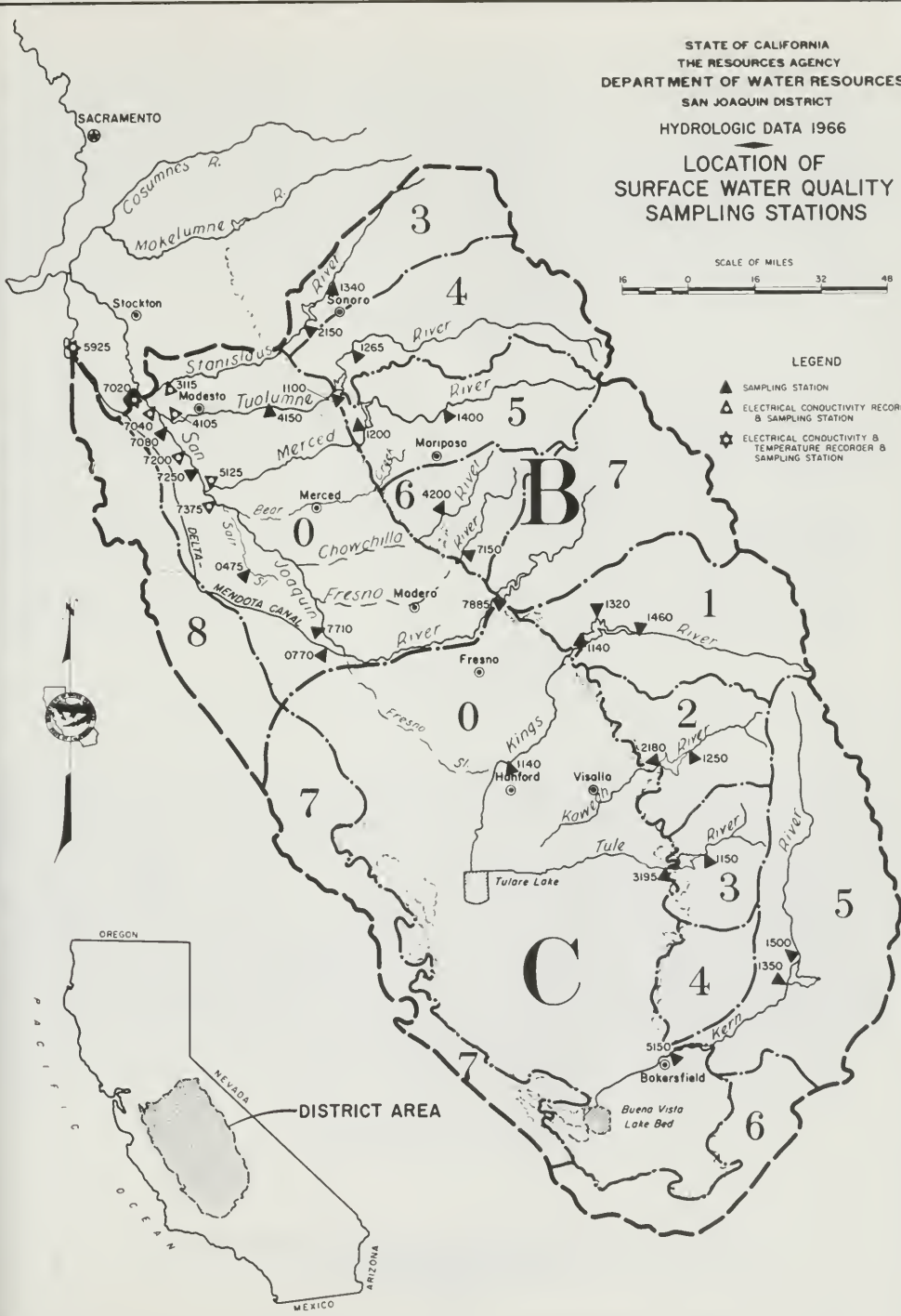
STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1966

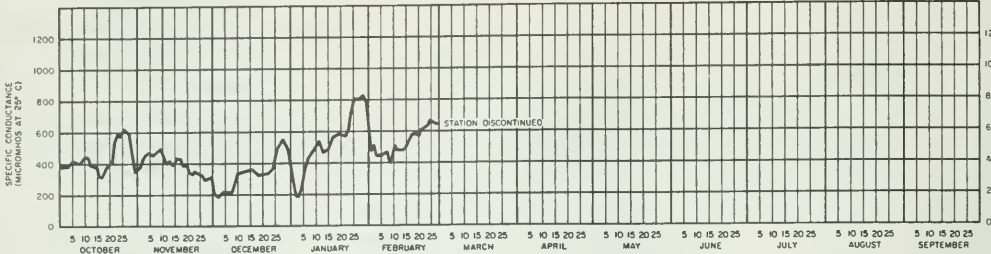
LOCATION OF
 SURFACE WATER QUALITY
 SAMPLING STATIONS



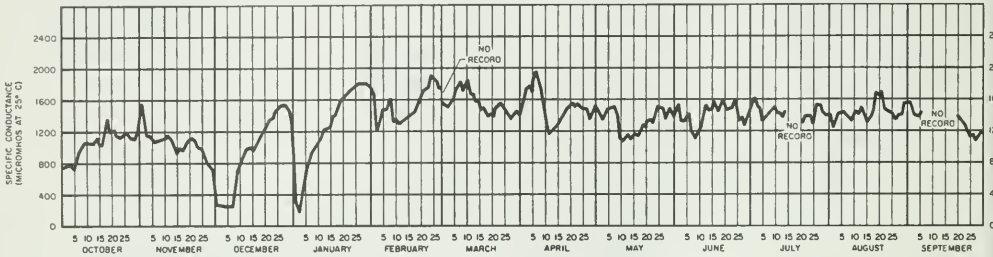
LEGEND

- ▲ SAMPLING STATION
- △ ELECTRICAL CONDUCTIVITY RECORDER & SAMPLING STATION
- ☆ ELECTRICAL CONDUCTIVITY & TEMPERATURE RECORDER & SAMPLING STATION

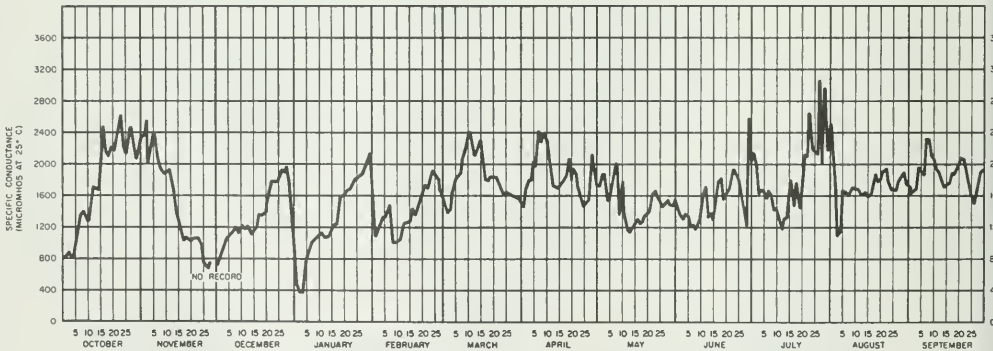




SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



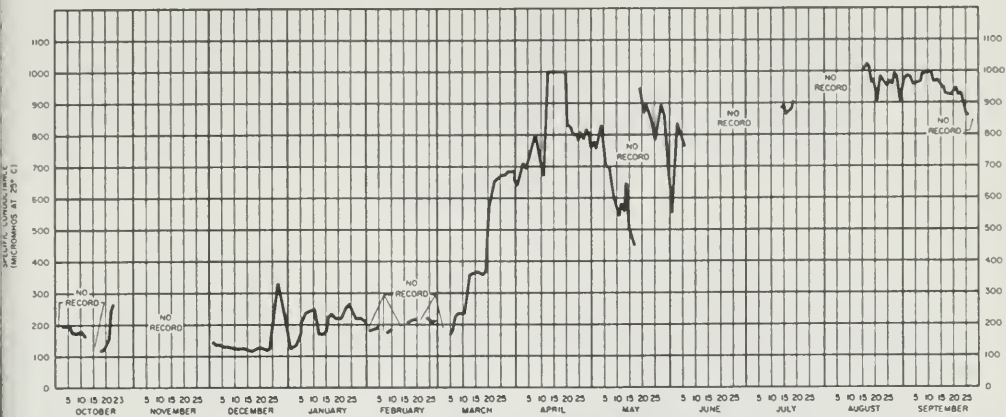
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STA. No. 7200 RIVER MILE 104.5



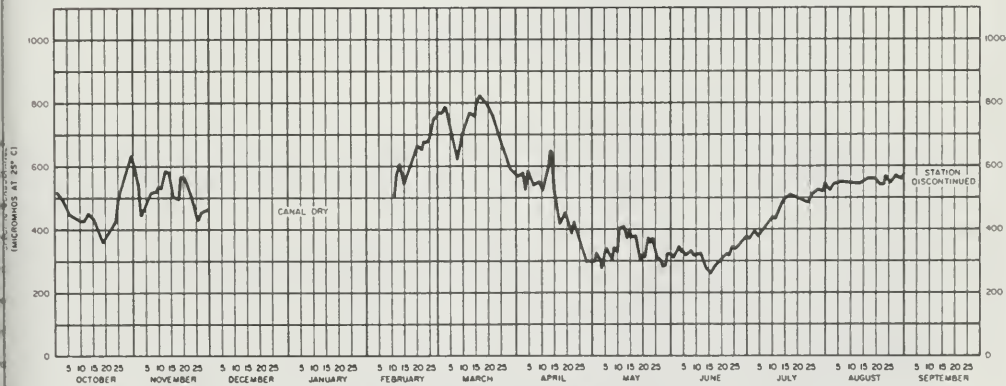
SAN JOAQUIN RIVER AT FREMONT FORD
STA. No. 7375 RIVER MILE 129.5

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1966

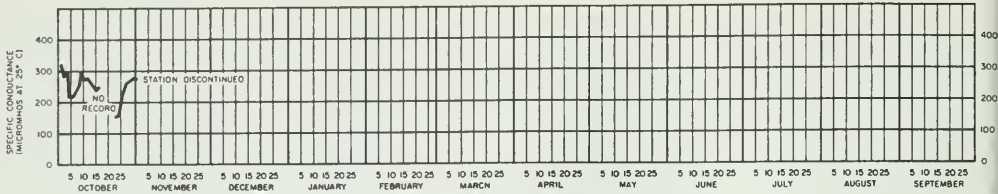


TUOLUMNE RIVER NEAR TUOLUMNE CITY
STA. No. 4105 RIVER MILE 2.9

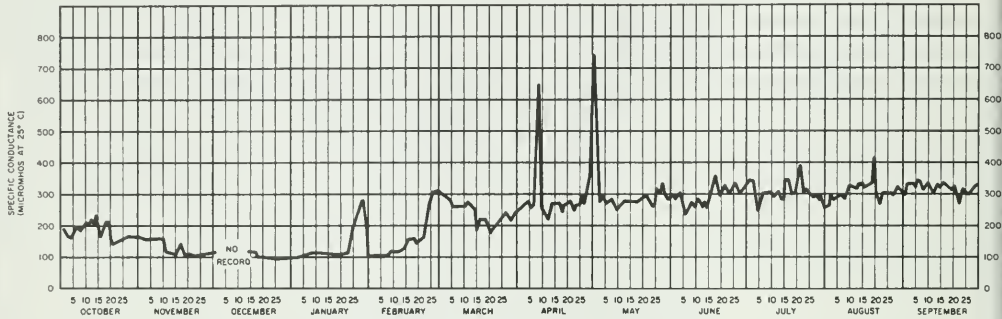


DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 CANAL MILE 3.5

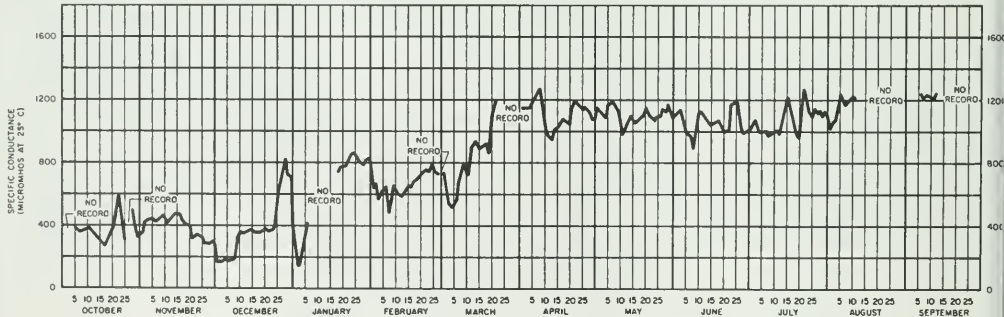
DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1966



MERCED RIVER NEAR STEVINSON
STA. No. 5125 RIVER MILE 1.8



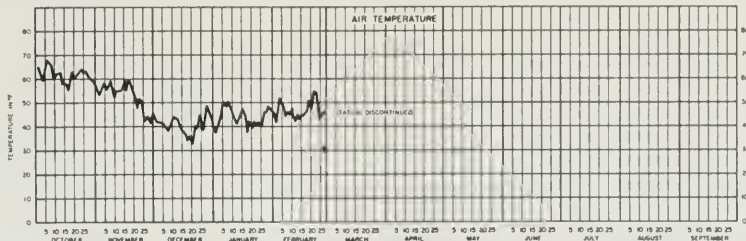
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STA. No. 3115 RIVER MILE 9.5



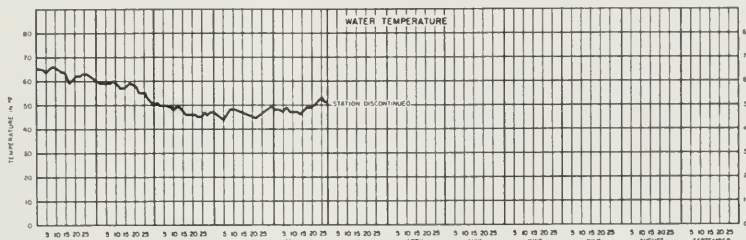
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. 7040 RIVER MILE 82.9

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

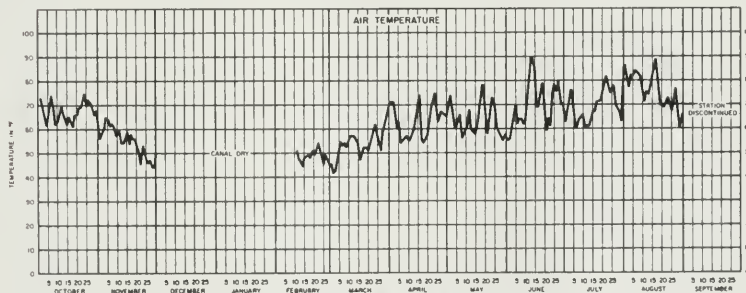
1966



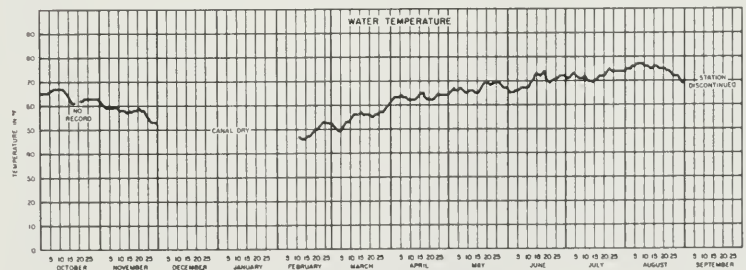
SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 RIVER MILE 3.5



DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 RIVER MILE 3.5

DAILY MEAN TEMPERATURE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1966

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table is a tabulation of the analyses performed by the Department of Water Resources' Bryte Laboratory or the U. S. Geological Survey Laboratory in Sacramento. The U. S. Geological Survey Laboratory is coded as 5000 and Bryte Laboratory as 5050.

The sampler codes are as follows:

5002 = U. S. Army Corps of Engineers

5050 = Department of Water Resources

5204 = City and County of San Francisco

5633 = Kern County Parks and Recreation

TABLE D-2

BIG CREEK ABOVE PINE FLAT DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAH SAMPLER	G.M. %	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER TDS SUM			
							CA	MG	NA	K	CO ₃	HC0 ₃	SO ₄	CL	NO ₃	F	B	S102	TH	NCH				
C11320.00 10/11/65 1045	5000 5002	1.10 2.0	10.5 63.0F	8.2	121	--	--	10	--	0.0	57	--	9.2	--	.20	--	--	--	38	0				
C11320.00 11/15/65 1050	5000 5002	2.35 68.0	11.1 53.0F	7.2	63	--	--	6.0	--	0.0	23	--	4.2	--	.10	--	--	--	16	0				
C11320.00 12/13/65 1055	5000 5002	1.78 26.0	10.7 46 F	7.6	83	--	--	6.7	--	0.0	37	--	4.0	--	0.1	--	--	--	26	0				
C11320.00 01/26/66 1405	5000 5002	1.77 26.0	12.6 43 F	7.9 7.2	86	--	--	7.0	--	0.0	40	--	2.8	--	0.1	--	--	--	26	0				
C11320.00 02/14/66 1055	5000 5002	2.01 38.0	10.6 40.0F	8.1	89	--	--	6.8	--	0.0	42	--	2.6	--	0.1	--	--	--	28	0				
C11320.00 03/14/66 1105	5000 5002	2.08 43.0	10.6 52.0F	7.8	62	--	--	5.2	--	0.0	30	--	1.5	--	.00	--	--	--	20	0				
C11320.00 04/11/66 1110	5000 5002	2.08 43.0	10.4 56.0F	7.6	62	--	--	4.9	--	0.0	30	--	2.1	--	.00	--	--	--	18	0				
C11320.00 05/09/66 1025	5000 5002	1.63 15.0	10.4 60.0F	7.6	87	9.6 48 55	0.7 06 7	6.9 30 34	1.6 04 5	0.0	41	3.0 67 79	3.8 06 7	0.4 11 13	.00 01 1	.24	72 70	27 0	0					
C11320.00 06/13/66 1000	5000 5002	1.40 8.8	7.1 F	8.1	98	7.4 37 37	2.3 19 19	9.0 39 39	1.5 04 4	0.0	46	4.0 75 78	4.5 08 8	0.3 13 14	.00	25	70 77	28 0	0					
C11320.00 07/11/66 1020	5050 5002	1.12 6.0	9.8 74.0F	8.0	116	11 55	2.1 17	9.8 43	--	0.0	53	--	7.2	--	.00	--	--	--	36	0				
C11320.00 08/08/66 1115	5050 5002	.97 4	8.5 82.0F	7.4	149	15 75	1.6 13	13 57	--	0.0	65	--	15	--	0.0	--	--	--	44	0				

TABLE D-2 (Cont.)

CHOWCHILLA RIVER NEAR RAYMOND

STATION NUMBER DATE TIME	G.M.H. SAMPLER	DO SAT	TEMP	PH		FC LAR FLD	MINERAL ANALYSIS OF SURFACE WATER				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
				LAR FLD	LAR FLD		CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	S102	TDS SUM	TH NCH
66200.00 5/16/66 1325	5000 5050	9.6	41.0F	8.2	8.2	216	20	3.4	14	2.0	0.0	90	2.0	20	0.2	--	.00	28	139	64
							1.00	.28	.76	.05	1.48	.04	.56						138	0
							47	13	37	2	71	2	27							

TABLE D-2 (Cont.)

DELTA-MENDOTA CANAL NEAR MENDOTA

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. 0	DO SAT	TEMP F	PH FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER TDS SUM			
						CA	MG	NA	K	CO ₃	HCU ₃	SO ₄	CL	NO ₃	F		B	SI0 ₂	
R00770.00 10/11/65 1030		7.9	70.0F	8.2 7.3	340	--	--	50	--	0.0	96	--	69	--	--	.20	--	--	114 36
R00770.00 11/08/65 1415		9.8	54.0F	7.7 7.4	619	--	--	64	--	0.0	105	--	100	--	--	.10	--	--	136 50
R00770.00 12/13/65 1410		11.3	50.0F	8.2 7.4	594	--	--	66	--	0.0	94	--	86	--	--	.30	--	--	128 51
R00770.00 01/10/66 1445		16.4	51.0F	8.6 8.4	552	--	--	61	--	4.0	84	--	78	--	--	0.3	--	--	120 45
R00770.00 02/14/66 1330		13.6	54.0F	8.2 8.1	943	--	--	119	--	0.0	134	--	143	--	--	0.7	--	--	200 90
R00770.00 03/14/66 1500		10.2	60.0F	8.2 7.6	760	--	--	86	--	0.0	116	--	118	--	--	0.3	--	--	168 73
R00770.00 04/11/66 1450		11.6	67.0F	8.1 8.0	630	--	--	65	--	0.0	105	--	92	--	--	0.3	--	--	152 66
R00770.00 05/09/66 0900		8.7	--	7.9 7.6	253	16	7.3	22	1.4	0.0	68	22	28	1.5	--	0.2	1.4	1.67	70 14
R00770.00 06/13/66 1245		10.0	75.0F	8.4 8.0	683	33	25	40	2	1.12	46	19	33	1	--	0.4	--	--	208 84
R00770.00 07/11/66 0845		7.9	74.0F	8.0 7.7	492	23	15	50	--	0.0	97	--	75	--	--	0.1	--	--	119 40
R00770.00 09/12/66 0840		7.4	71 F	7.5 7.6	505	14	13	54	2.5	0.0	88	0.0	82	2.0	--	0.2	--	--	295 25

TABLE D-2 (Cont.)

DELTA-MENDOTA CANAL NEAR TRACY

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P.H. ()	OO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	MILLIGRAMS PER LITER		
																	TDS	SUM	NCH
H95925.00 10/05/65 1335	1450.0	8.1	70.0F	8.2 7.4	603	--	--	65	--	0.0	115	--	91	--	--	.40	--	--	138 44
H95925.00 11/02/65 1440	870.0	--	63.0F	8.1 7.4	795	--	--	84	--	0.0	129	--	131	--	--	.30	--	--	178 72
H95925.00 12/01/65 1210	.0	3.5	52.0F	8.1 6.9	457	--	--	50	--	0.0	87	--	66	--	--	0.2	--	--	98 27
H95925.00 02/09/66 1110	878.0	10.3	50.0F	8.0 7.3	551	--	--	65	--	0.0	96	--	83	--	--	0.4	--	--	124 46
H95925.00 03/09/66 1125	1730.0	11.4	56.0F	8.0 7.4	612	--	--	69	--	0.0	104	--	95	--	--	0.2	--	--	136 51
H95925.00 04/06/66 0440	2562.0	9.4	64.0F	8.0	444	--	--	43	--	0.0	85	--	55	--	--	0.2	--	--	114 45
H95925.00 05/04/66 1100	3340.0	8.3	68.0F	7.5 7.0	220	15 .75 36	6.4 .53 25	18 7.8 37	1.3 .03 1	0.0	64	18 37 51	22 .62 30	1.3 .02 1	--	.00	1.4	142 127	64 12
H95925.00 06/06/66 1000	3416.0	7.9	69.8F	8.1 7.4	238	--	--	20	--	0.0	79	--	19	--	--	0.2	--	--	71 6
H95925.00 07/14/66 0805	4160.0	8.2	72.5F	7.7 7.5	487 460	20 1.00	12 .99	52 2.26	--	0.0	86	--	86	--	--	0.1	--	--	98 28
H95925.00 08/04/66 0725	4185.0	6.9	77 F	7.5 7.3	556 520	18 .90	13 1.08	64 2.78	--	0.0	80	--	104	--	--	0.1	--	--	99 34
H95925.00 09/07/66 0815	2502.0	7.8	72 F	8.4 7.7	541	23 1.15 23	16 1.32 26	56 2.84 49	3.2 .08	2.0 .07	94 1.54	34 .71	94 2.65	1.5 .02	--	0.2	--	299 276	125 45

TABLE D-2 (Cont.)

FRESNO RIVER NEAR DAULTON

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	OO SAT	TEMP	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER						MILLIGRAMS PER LITER							
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TDS SUM	TH SUM NCH
R67150.00		9.6	71.0F	7.5	67	6.0	0.6	5.8	0.9	0.0	27	1.0	4.7	0.2	--	.00	15	55	18.
05/16/66	5000			7.6		.30	.05	.25	.02	.44	.02	.13						47	
1250	5050					.48	.8	.40	.3	.75	.3	.22							0

TABLE D-2 (Cont.)

KAWEAH RIVER BELOW TERMINUS DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER TDS			
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	S102	SUM	TH
C02185.00 10/07/65 0830	.10 4.6	8.0	64.0F	7.5	88	--	--	4.0	--	0.0	4.4	--	1.8	--	--	.00	--	52	40
								.17		.72	.05								4
C02185.00 11/08/65 0845	.18 26.0	9.3	60.0F	7.8	105	--	--	4.6	--	0.0	5.3	--	2.6	--	--	.00	--	--	40
								.20		.87	.07								0
C02185.00 12/07/65 1230	1.30 2.6	11.5	49.0F	7.9	75	--	--	3.4	--	0.0	3.6	--	2.2	--	--	.00	--	57	27
								.17		.59	.06								0
C02185.00 01/03/66 1105	1.52 349.0	11.5	44.0F	7.0	85	--	--	4.4	--	0.0	4.0	--	2.1	--	--	.00	--	63	32
								.19		.66	.06								0
C02185.00 02/07/66 0920	1.88 428.0	8.9	44.0F	7.9	97	--	--	4.9	--	0.0	4.6	--	2.2	--	--	.00	--	61	36
								.21		.75	.06								0
C02185.00 03/07/66 0855	1.12 258.0	6.5	49.0F	7.6	96	--	--	4.7	--	0.0	4.7	--	2.6	--	--	.00	--	65	36
								.20		.77	.07								0
C02185.00 04/04/66 1000	1.90 489.0	5.5	58.0F	7.5	50	--	--	2.8	--	0.0	2.4	--	1.0	--	--	0.2	--	39	18
								.12		.39	.03								0
C02185.00 05/09/66 0815	3.19 407.0	6.7	57.0F	7.0	40	5.4	0.2	2.1	0.6	0.0	2.0	1.0	0.6	0.5	--	.00	8.3	33	14
						.27	.02	.09	.02	.33	.02	.01	.02	.01	.3			29	0
						.68	.5	.23	.5	.87	.5								
C02185.00 06/07/66 0825	3.25 1123.0	5.5	61.0F	7.5	38	--	--	1.8	--	0.0	1.9	--	0.3	--	--	.00	--	29	14
								.08		.31	.01								0
C02185.00 07/11/66 0900	3.62 501.0	8.5	68 F	7.4	54	--	--	2.3	--	0.0	2.6	--	0.9	--	--	0.2	--	36	21
								.10		.43	.03								0
C02185.00 08/09/66 0700	.84 69.0	7.6	76.0F	7.2	76	9.7	0.9	3.2	--	0.0	3.8	--	2.0	--	--	.00	--	--	28
						.48	.08	.14		.62	.06								0
C02185.00 09/19/66 0745	.07 25.0	7.5	72 F	7.0	107	13	2.8	4.5	1.6	0.0	5.3	2.6	4.7	1.2	--	0.0	--	70	44
						.65	.23	.20	.04	.87	.05	.13	.02	.02				56	1
						.58	.21	.18		.81	.5	.12							

TABLE D-2 (Cont.)

KAWAII RIVER AT THREE RIVERS

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. LAB SAMPLER	DO SAT	TEMP F	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	H	SiO2	TUS	TH	NCH	
C21250.00 10/07/65 0915	5000 5002	.10 63.0	8.9 62.0F	7.9	111	--	--	6.4 .30	--	0.0 .90	55 .10	--	3.5 .10	--	--	.00	--	--	4.3 0		
C21250.00 11/08/65 0930	5000 5002	2.17 45.0	10.0 57.0F	8.0	131	--	--	7.0 .30	--	0.0 1.12	68 .12	--	4.2 .12	--	--	.00	--	--	50 0		
C21250.00 12/07/65 1520	5000 5002	3.47 232.0	10.0 46.0F	7.6	71	--	--	4.6 .20	--	0.0 .56	34 .06	--	2.1 .06	--	--	.00	--	57 26 0			
C21250.00 01/03/66 1035	5000 5002	3.66 253.0	21.5 38.0F	7.6	98	--	--	4.9 .21	--	0.0 .74	45 .74	--	2.3 .06	--	--	.00	--	72 37 0			
C21250.00 02/07/66 1000	5000 5002	1.88 4.3	7.6 43.0F	7.5	90	--	--	5.1 .22	--	0.0 .72	44 .72	--	1.9 .05	--	--	0.1	--	--	32 0		
C21250.00 03/07/66 0920	5000 5002	3.43 210.0	7.2 49.0F	7.7	87	--	--	4.5 .20	--	0.0 .75	46 .75	--	2.3 .06	--	--	.00	--	--	32 0		
C21250.00 04/08/66 1040	5000 5002	5.84 1218.0	8.1 56.0F	7.3	37	--	--	2.3 .10	--	0.0 .30	18 .30	--	0.8 .02	--	--	.00	--	--	14 0		
C21250.00 05/09/66 0850	5000 5002	5.61 1028.0	5.6 55.0F	7.2	29	4.2 .21 72	0.0 .07 24 3	1.6 .07 24 3	0.4 .01 3	0.0 .25 86 7 3	15 .02 3	1.0 .07 3	0.5 .01 3	0.4 .01 3	--	.00	6.5	26 10 22 0			
C21250.00 06/07/66 0900	5000 5002	4.93 629.0	5.4 61.0F	7.2	42	--	--	2.3 .10	--	0.0 .33	20 .33	--	0.8 .02	--	--	.00	--	--	16 0		
C21250.00 07/11/66 0900	5000 5002	2.66 95.0	10.0 70.0F	7.7	79	--	--	3.8 .17	--	0.0 .62	38 .62	--	2.0 .06	--	--	.00	--	50 30 0			
C21250.00 08/09/66 1030	5050 5002	2.19 68.0	8.0 77.0F	7.8	104	12 .60	1.7 .14	5.1 .22	--	0.0 .82	50 .82	--	4.9 .14	--	--	.00	--	--	37 0		
C21250.00 09/19/66 0920	5050 5002	1.91 27.0	10.5 68 F	7.6	145	19 .95 63	2.1 .17 11	8.0 .35 23	1.8 .05 3	0.0 1.12 77	68 .09 6	4.4 .23 1	8.0 .02 16	1.1 .02 1	--	0.0	--	85 78 0			

TABLE D-2 (Cont.)

KERN RIVER NEAR BAKERSFIELD

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	TEMP F	PH LAB FLO	EC LAB FLO	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	MILLIGRAMS PER LITER				
														F	B	SI02	SUM	
														MILLIEQUIVALENT PER LITER				
														PERCENT REACTANCE VALUE				
C05150.00 10/09/65 0900	49.72 823.0	65.0F	7.2	108	--	--	8.6 .37	--	0.0	52 .85	--	2.6 .07	--	--	.10	--	--	34 0
C05150.00 11/02/65 0950	49.70 713.0	59.0F	7.7	105	--	--	9.6 .42	--	0.0	56 .92	--	2.7 .08	--	--	.00	--	--	36 0
C05150.00 12/06/65 1530	49.51 517.0	50.0F	7.7	125	--	--	11 .48	--	0.0	59 .97	--	3.7 .10	--	--	.00	--	--	43 0
C05150.00 01/06/66 0830	49.69 592.0	44.0F	7.0	147	--	--	18 .78	--	0.0	50 .82	--	7.5 .21	--	--	.10	--	--	39 0
C05150.00 02/01/66 0900	49.44 419.0	42.0F	8.1	149	--	--	12 .52	--	0.0	68 1.12	--	4.0 .11	--	--	0.1	--	--	44 0
C05150.00 03/02/66 0415	49.64 629.0	40.0F	8.1	157	--	--	13 .57	--	0.0	74 1.21	--	5.7 .16	--	--	0.2	--	--	46 0
C05150.00 04/04/66 1300	49.72 747.0	60.0F	8.1	151	--	--	13 .57	--	0.0	71 1.16	--	4.8 .14	--	--	0.3	--	--	46 0
C05150.00 05/05/66 1100	49.63 669.0	72 F	7.6	161	14 .70 45	2.4 .20 13	14 .61 39	1.7 .04 .03	0.0	66 1.08 .71	14 .29 19	4.8 .14 .9	0.4 .01	--	0.3	3.7	102 88	45 0
C05150.00 06/07/66 0845	49.61 637.0	65 F	6.3	111	--	--	9.7 .42	--	0.0	39 .64	--	3.4 .10	--	--	0.1	--	--	33 1
C05150.00 07/05/66 0800	50.05 1203.0	68 F	7.5	111	--	--	10 .44	--	0.0	52 .85	--	2.6 .07	--	--	0.0	--	--	32 0
C05150.00 08/08/66 0905	49.81 908.0	72 F	7.8	120	9.7 .48	2.7 .22	10 .44	--	0.0	54 .89	--	3.9 .11	--	--	0.2	--	--	35 0
C05150.00 09/07/66 0730	49.32 407.0	70 F	7.1	137	11 .55 37	5.2 .43 29	11 .48 32	1.5 .04 .03	0.0	65 1.07 .77	6.4 .13 .9	5.9 .17 12	1.0 .02	--	0.1	--	81 74	49 0

TABLE D-2 (Cont.)

KERN RIVER BELOW ISABELLA DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAB SAMPLER	G.P.H. 0	DO SAT	TEMP °F	PH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS			
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	S102	TDS SUM	TH	NCH
C51350.00 01/10/66 1050	5000	5.0	11.0	42.0F	7.6	133	--	--	11	--	0.0	66	--	3.2	--	--	.10	--	--	39	0
	5002								.48		1.08			.09							
C51350.00 05/05/66 1030	5000	88.0	9.0	58.0F	8.1	123	12	1.7	11	1.3	0.0	59	7.0	3.7	0.9	--	0.1	11	84	37	0
	5002						.60 48	.14 11	.48 38	.03 2		.97 79	.15 12	.10 8		.01				78	0
C51350.00 07/26/66 1500	5050	6.33	8.0	70.0F	7.4	112	11	1.5	9.7	--	0.0	54	--	2.2	--	--	0.1	--	--	34	0
	5002	445.0					.55	.13	.42		.89		.06								

TABLE D-2 (Cont.)

KERN RIVER NEAR KERNVILLE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.M. 3	DO SAT	TEMP	PH LAR FLD	FC LAR FLD	MILLIGRAMS PER LITER							MILLIGRAMS PER LITER								
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	SI0 ₂	TDS SUM	TH NCH		
C51500.00 01/10/66 1030	5000 5002	379.0	12.2	36.0F	8.1	132	--	--	11	--	0.0	64	--	3.6	--	--	.00	--	--	98	0	
C51500.00 05/05/66 1005	5000 5002	1480.0	8.5	55.0F	7.3	50	5.4	0.4	4.1	0.7	0.0	23	4.0	1.2	0.0	--	.00	9.5	40	37	15	0
C51500.00 07/28/66 1300	5050 5002	4.27	7.5	77.0F	7.3	117	.27	.03	.15	.02	0.0	.38	.14	.03	6	--	0.1	--	--	--	33	0
							54	0	36	4		78	15	6								
							.45	.11	.44	--	0.0	.53	--	3.2	--	0.1	--	--	--	--	0	0
												.87		.09								

TABLE D-2 (Cont.)

KINGS RIVER BELOW NORTH FORK

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	C.H. SAMPLER	NO SAT	TEMP F	PH LAK FLD	FC LAK FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUF				MILLIGRAMS PER LITER TDS				
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	H	S102	TOS	TH
C11460.00 10/11/65 5000 5002	2.84 278.0	10.1	61.0F	7.4	50	--	--	3.1	--	0.0	22	--	1.0	--	--	.20	--	--	16	0
C11460.00 11/15/65 5000 5002	4.50 1170.0	10.6	52.0F	7.2	37	--	--	3.1	--	0.0	15	--	1.4	--	--	.10	--	--	12	0
C11460.00 12/13/65 5000 5002	3.71 645.0	10.5	42.0F	7.4	44	--	--	3.7	--	0.0	19	--	.09	--	--	.10	--	--	14	0
C11460.00 01/28/66 5000 5002	3.37 459.0	13.1	44 F	7.7 7.0	52	--	--	3.6	--	0.0	22	--	1.0	--	--	0.0	--	--	16	0
C11460.00 02/16/66 5000 5002	3.85 500.0	10.7	41.0F	7.8	56	--	--	3.8	--	0.0	24	--	1.2	--	--	0.1	--	--	18	0
C11460.00 03/14/66 5000 5002	4.62 1036.0	10.5	50.0F	7.1	40	--	--	3.1	--	0.0	17	--	0.8	--	--	.00	--	--	13	0
C11460.00 04/11/66 5000 5002	4.19 3022.0	10.5	51.0F	7.2	25	--	--	1.4	--	0.0	11	--	0.8	--	--	0.2	--	--	8	0
C11460.00 05/09/66 5000 5002	7.09 4470.0	10.6	52.0F	6.8	18	2.2	0.1	1.3	0.4	0.0	8.0	1.0	0.3	0.0	--	.00	5.5	19	6	
C11460.00 06/13/66 5000 5002	6.08 2470.0	8.0	62 F	7.2	19	1.4	0.6	1.4	0.4	0.0	10	1.0	0.3	0.2	--	0.0	5.1	17	6	
C11460.00 08/08/66 5050 5002	3.37 468.0	8.4	70.0F	7.0	40	4.7	0.6	2.4	--	0.0	16	--	3.0	--	--	.00	--	--	14	1
C11460.00 09/12/66 5050 5002	2.44 150.0	--	--	7.5	55	6.0	2.7	3.0	1.0	0.0	24	2.1	2.0	0.1	--	0.2	--	--	30	26
						.30	.22	.13	.03		.39	.04	.06						29	7
						4.4	32	1.9	4		8.0	0	1.2							

TABLE D-2 (Cont.)

KINGS RIVER BELOW PEOPLES WEIR

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M.H. LAB SAMPLER	DO SAT	TEMP F	PH FLO	EC LAB FLO	CA MG	NA MG	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
									CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI02	TDS SUM	TH NCH
C011*0.00 10/11/65 0845	2.65 54.0	9.6	68.0F	8.3 7.8	173	--	--	10 .44	--	2.0 .07	82 1.34	--	4.8 .14	--	.10	--	--	62 0
C011*0.00 11/08/65 1400	2.55 14.0		64.0F	8.0	75	--	--	4.4 .19	--	0.0	38 .62	--	1.6 .05	--	.00	--	--	29 0
C011*0.00 12/13/65 1130	2.82 110.0		50.0F	8.2 7.2	176	--	--	10 .44	--	0.0	85 1.39	--	5.8 .16	--	.00	--	--	63 0
C011*0.00 01/10/66 1320	2.75 102.0	10.6	52.0F	7.9 7.2	179	--	--	11 .48	--	0.0	86 1.41	--	5.2 .15	--	.00	--	--	65 0
C011*0.00 02/18/66 1145	2.86 118.0	10.3	52.0F	8.2 7.2	129	--	--	7.6 .33	--	0.0	62 1.02	--	3.8 .11	--	0.1	--	--	45 0
C011*0.00 03/14/66 1310	6.24 1185.0	11.0	55.0F	7.5 7.2	49	--	--	3.3 .14	--	0.0	21 .34	--	1.0 .03	--	.00	--	--	16 0
C011*0.00 04/12/66 0450	3.44 295.0	10.3	61.0F	7.8 7.0	62	--	--	3.7 .16	--	0.0	28 .46	--	1.8 .05	--	.00	--	--	22 0
C011*0.00 05/09/66 1215	3.47 303.0	10.0	69.0F	7.6 7.4	H3	6.8 .34 43	2.8 .23 29	4.6 .20 25	1.2 .03	0.0	38 .62 79	4.0 .08 10	2.6 .07 1	0.7 .01	.00	7.5	52 49	28 0
C011*0.00 06/13/66 1335	7.12 1517.0	9.7	66.5F	6.9 6.8	34	--	--	2.2 .10	--	0.0	14 .23	--	0.6 .02	--	0.2	--	--	10 0
C011*0.00 07/11/66 0630	6.76 1313.0	9.9	69 F	7.0 6.8	30	3.4 .19	0.1 .01	1.8 .08	--	0.0	14 .23	--	0.5 .01	--	0.0	--	--	10 0
C011*0.00 09/12/66 1100	6.67 1260.0	9.1	70 F	7.0 7.2	3A	4.3 .16 50	0.7 .06 19	2.0 .09 28	0.5 .01 3	0.0	17 .28 78	2.0 .04 11	0.7 .02 6	1.0 .02 6	0.1	--	35 19	11 0

TABLE D-2 (Cont.)

KINGS RIVER BELOW PINE FLAT DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	DO SAT	TEMP F	PH LAB FLO	EC LAB FLO	CA	MG	NA	K	CO ₃	HCO ₃	CL	NO ₃	MILLIGRAMS PER LITER						
														F	B	SIO ₂	TDS	TH	MCH	PERCENT REACTANCE VALUE
C111*0.00 10/11/65 5000 5002	1.04 95*0	10.3	66.0F	7.1	37	--	--	3.3	--	0.0	6.0	9.0	0.3	--	--	.10	--	--	8	3
C111*0.00 11/15/65 1400 5002	.80 62*0	10.2	62.0F	7.2	28	--	--	1.9	--	0.0	11	--	0.7	--	--	.00	--	--	9	0
C111*0.00 12/13/65 13*0 5000 5002	1.25 125*0	10.6	52.0F	7.3	30	--	--	1.9	--	0.0	13	--	0.6	--	--	.00	--	--	10	0
C111*0.00 01/26/66 1305 5000 5002	2.43 377*0	12.1	50 F	7.5 6.9	38	--	--	2.5	--	0.0	16	--	0.6	--	--	0.0	--	--	12	0
C111*0.00 02/14/66 0930 5000 5002	1.51 168*0	10.4	48.0F	7.6	42	--	--	2.8	--	0.0	18	--	0.8	--	--	.00	--	--	14	0
C111*0.00 03/14/66 1355 5000 5002	5.63 3098*0	10.7	50.0F	7.4	42	--	--	3.2	--	0.0	18	--	0.8	--	--	.00	--	--	14	0
C111*0.00 04/11/66 1345 5000 5000	4.87 2085*0	10.5	54.0F	7.7	39	--	--	2.5	--	0.0	16	--	0.9	--	--	0.5	--	--	12	0
C111*0.00 05/09/66 5000 5002	5.44 2815*0	10.8	50.0F	7.4	36	4.2	0.2	2.5	0.9	0.0	16	2.0	0.5	0.5	0.5	.00	7.3	26	12	0
C111*0.00 06/13/66 5000 5002	6.67 5050*0		55 F	7.4	26	1.6	0.9	2.1	0.4	0.0	12	1.0	0.4	0.2	0.2	0.0	6.8	23	8	0
C111*0.00 07/11/66 1315 5050 5002	6.01 3765*0	10.1	60.0F	7.1	21	3.3	0.7	1.2	--	0.0	10	--	1.2	--	--	.00	--	--	11	3
C111*0.00 08/08/66 1315 5050 5002	4.42 1560*0	9.5	66.0F	7.0	27	3.8	0.1	2.6	--	0.0	13	--	1.1	--	--	.00	--	--	10	0
C111*0.00 09/12/66 1250 5002 5002	4.66 1850*0	9.5	66.0F	7.2	34	4.2	0.1	1.7	0.5	0.0	14	1.0	1.1	0.6	0.6	0.0	0.0	--	15	11
						.21 70	.01 3	.07 23	.01 3		.23 79	.02 7	.03 10	.01 3					16	0

TABLE D-2 (Cont.)

MERCED RIVER BELOW EXCHEQUER DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. SAMPLER	DO SAT	TEMP	PH LAH FLD	FC LAH FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER						MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SiO2	TDS SUM
H51200.00 01/10/66 5050		11.5	51.0F	7.4 7.2	87	--	--	3.9	--	0.0	.36	--	2.2	--	.00	--	--	34
								.17		.59		.06						
H51200.00 05/09/66 5050		12.0	--	7.7 6.9	65	7.0	1.9	2.4	0.9	0.0	.30	6.0	1.1	0.5	--	.00	9.7	48
						.35 54	.16 25	.12 14	.02 3	.49 40	.03 13	.01 5						
H51200.00 07/18/66 5050		10.5	64.0F	6.8 6.8	23	4.1	0.0	1.5	--	0.0	.13	--	1.0	--	.00	--	--	10
						.20		.07		.21		.03						

MERCED RIVER ABOVE LAKE MCCLURE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. LAB SAMPLER	DO SAT	TEMP F	PH FLD	EC LAB FLD	CA MG	NA MG	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	MILLIGRAMS PER LITER				TDS SUM	TH NCH
														F	g	g	g		
R51400.00 03/16/66 1510	5.68 1010.0 5050	--	7.4	31	3.4 .17 53	0.2 .02 6	2.5 .11 34	0.7 .02 6	0.0	0.0	.14 .23 82	1.0 .02 7	1.0 .03 11	0.3	--	.00	11	28 27	10 0
R51400.00 07/11/66 1220	6.88 2300.0 5050	11.7	49.0F	7.1 6.8	18	--	1.5 .07	--	0.0	8.0 .13	--	0.3 .01	--	--	.00	--	20	6 0	
R51400.00 05/19/66 1415	7.12 2580.0 5050	10.5	62.0F	7.1 6.8	13	0.8 .04 33	1.1 .02 17	0.3 .05 42	0.0	6.0 .19 91	0.0	0.0	0.1 .01 9	0.5	--	.00	4.5	13 10	3 0
R51400.00 07/18/66 1315	3.63 137.0 5050	8.5	74.7F	6.9 7.5	41	3.8 .19	2.4 .15	--	0.0	1.8 .30	--	2.9 .08	--	--	.00	--	--	--	17 2
R51400.00 09/14/66 1820	2.49 34.0 5050	10.2	69.0F	7.7 8.4	75	9.3 .46 61	0.7 .06 8	1.5 .20 26	0.0	0.0	.29 .48 71	0.9 .02 3	4.2 .17 25	0.5	--	0.0	--	33 38	26 2

TABLE D-2 (Cont.)

MERCED RIVER NEAR STEVINSON

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	DO SAT	TEMP F	PH FLD	EC L/CM	CA MG	MG NA	K	CO ₃ %CO ₃	50 ^a CL	NO ₃	MILLIGRAMS PER LITER				TDS SUM
												F	B	S102	TH NCH	
H05125.00 10/05/65 0930	57.15 275.0	8.5 10.2	64.0F 54.0F	8.2 7.2	195	--	14 .78	--	0.0 1.36	83 .28	--	10 .00	--	--	--	61 0
H05125.00 11/02/65 1025	54.26 121.0	--	61.0F	8.0 7.3	363	--	34 1.48	--	0.0 2.53	154 .62	--	22 .00	--	--	--	100 0
H05125.00 11/30/65 1005	66.41 403.0	10.2	54.0F	7.5 6.8	76	--	3.6 .17	--	0.0 .54	33 .05	--	1.8 .05	--	0.0	--	30 3
H05125.00 01/04/66 1010	66.11 475.0	10.4	47.0F	7.5 7.0	100	--	5.6 .24	--	0.0 .74	45 .06	--	2.2 .06	--	0.0	--	37 0
H05125.00 02/08/66 0955	57.64 275.0	10.3	50.0F	8.0 7.3	210	--	16 .70	--	0.0 1.62	99 .18	--	6.4 .18	--	0.1	--	67 0
H05125.00 03/08/66 1005	54.72 152.0	9.7	60.0F	8.0 7.3	330	--	33 1.44	--	0.0 2.33	142 .56	--	20 .56	--	0.0	--	92 0
H05125.00 04/21/66 1355	54.79 63.0	--	68.0F	7.9 7.4	262	--	24 1.04	--	0.0 1.87	114 .45	--	16 .45	--	0.0	--	76 0
H05125.00 05/05/66 1130	56.04 100.0	11.4	72.0F	7.4 7.3	378	25 1.25 33	41 1.78 20 45	2.4 .06 2	0.0 2.46 .65	150 .37 10 23	14 .10 3	31 .87 10 23	6.0 .10	0.0 .00	26 232	100 0
H05125.00 06/09/66 1045	56.45 150.0	8.2	73.4F	8.3 7.4	283	--	28 1.22	--	2.0 .07	119 1.95	--	17 .48	--	0.2	--	78 0
H05125.00 07/14/66 1240	55.69 78.0	10.7	76 F	7.9 7.5	361	26 1.30	34 .66 1.44	--	0.0 2.41	147 .82	--	29 .82	--	0.0	--	98 0
H05125.00 09/05/65 0945	55.40 75.0	7.3	72 F	8.5 7.6	394	24 36	34 1.65 43	3.2 .08 2	9.0 .30 8	140 2.30 60	14 .29 8	32 .80 23	4.6 .07	0.1	245 207	107 0

SALT SLOUGH AT SAN LUIS RANCH

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	COND u	TEMP F	PH FLD	EC FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	MILLIGRAMS PER LITER					
													F	8	SI02	LOS	TM	NCM
H00475.00 10/04/65 0720	3.14 4.0	6.2 63.0F 7.2	8.5 7.2	1420	--	--	179 7.79	--	4.0 .13	1.97 3.23	165 3.43	248 6.99	--	--	.50	--	288 120	
H00475.00 11/02/65 0425	2.45 4.0	4.2 57.0F 7.2	8.0 7.2	1440	--	--	190 4.27	--	0.0	2.02 3.31	174 3.62	270 7.61	--	--	.70	--	294 129	
H00475.00 11/20/65 0800	4.54 2.05	4.5 43.0F 7.2	8.2 7.2	1710	--	--	234 10.14	--	0.0	2.08 3.41	302 8.24	256 7.22	--	--	1.40	--	358 188	
H00475.00 01/04/66 0445	3.41 1.24	11.0 43.0F 7.4	8.0 7.4	2940	--	--	395 17.23	--	0.0	2.36 3.87	670 13.94	464 13.08	--	--	3.90	--	628 435	
H00475.00 02/02/66 0420	3.35 7.0	9.3 46.0F 7.4	8.1 7.4	3500	--	--	520 22.62	--	0.0	2.62 4.30	860 17.89	545 15.37	--	--	5.1	--	740 525	
H00475.00 03/02/66 0440	3.00 1.0	7.1 56.0F 7.3	8.2 7.3	1440	--	--	266 11.57	--	0.0	1.88 3.08	372 7.74	302 8.52	--	--	2.1	--	438 284	
H00475.00 04/05/66 0800	3.45 1.1	7.0 63.0F 7.4	8.4 7.4	1770	--	--	234 10.14	--	10	1.66 2.72	295 6.14	300 8.46	--	--	1.4	--	384 232	
H00475.00 05/04/66 0440	3.44 3.0	6.3 62.0F 7.2	7.6 7.2	1060	54 26	25 20	123 5.35	4.6 .12	0.0	1.52 2.49	123 2.55	172 4.85	3.4 .05	--	0.6	17	628 597	
H00475.00 06/02/66 0820	3.44 4.0	6.1 64.0F 7.3	7.4 7.3	916	--	--	104 4.74	--	0.0	1.58 2.59	110 2.29	130 3.67	--	--	0.3	--	204 75	
H00475.00 07/13/66 0445	3.49 1.0	5.4 73 F 7.2	7.6 7.2	648	42 32	20 25	67 2.91	--	0.0	1.49 2.44	88 1.83	132 3.72	--	--	0.4	--	188 66	
H00475.00 09/04/66 0720	4.41 4.4	5.2 71.0F 7.4	8.2 7.4	1700	41 23	33 16	237 1.31	6.4 .17	0.0	1.95 3.20	273 5.98	285 8.04	2.5 .04	--	1.6	--	1070 1015	

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAT LONG	SUN MOON	WIND DIR	WIND SPEED	TEMP FLD	PH FLD	EC FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER								MILLIGRAMS PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER TDS					
								CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	SUM	TDS	TH	NCH				
R07250.00 10/05/65 5000 5050					54.0F 7.6	8.2 7.6	640	--	7.4 3.39	--	--	0.0 2.41	147 2.54	--	90 2.54	--	.10	--	405 26								
R07250.00 11/02/65 5000 5050					60.0F 7.4	7.9 7.4	1390	--	17.4 7.57	--	--	0.0 3.38	206 6.63	--	235 6.63	--	.50	--	849 113								
R07250.00 11/30/65 5000 5050					54.0F 7.0	7.7 7.0	236	--	25 1.09	--	--	0.0 .98	60 6.65	--	23 6.65	--	.10	--	149 8								
R07250.00 01/05/66 5000 5050					44.0F 7.4	9.0 7.4	697	--	55 2.39	--	--	0.0 1.74	106 1.52	--	54 1.52	--	.60	--	318 24								
R07250.00 02/02/66 5000 5050					49.0F 7.5	8.5 7.5	1650	--	230 10.01	--	--	10 .33	190 3.12	--	258 7.28	--	1.4	--	1220 156								
R07250.00 03/02/66 5000 5050					60.0F 7.8	9.0 7.8	1950	--	272 11.83	--	--	0.0 3.44	210 3.44	--	322 9.08	--	1.3	--	1320 212								
R07250.00 04/05/66 5000 5050					63.0F 8.3	7.8 8.3	1690	--	208 9.05	--	--	0.0 3.35	204 3.35	--	260 7.90	--	1.1	--	1080 187								
R07250.00 05/05/66 5000 5050					71.0F 8.2	9.0 8.2	1350	45 3.24 24	24 7.66 18 57	4.9 0.13 1	--	0.0 3.25	198 3.54 27 48	172 6.26	222 6.26	3.6 0.06	0.3	16 786	796 120								
R07250.00 06/09/66 5000 5050					73.4F 8.4	8.3 8.4	1040	--	133 5.72	--	--	2.0 .07	172 2.42	--	160 4.51	--	0.1	--	628 74								
R07250.00 07/14/66 5000 5050					76.0F 8.4	7.8 8.4	1590	53 2.64	44 8.62	194 8.61	--	0.0 3.30	201 3.30	--	280 7.90	--	0.6	--	-- 150								
R07250.00 08/04/66 5000 5050					75.0F 8.3	8.1 8.3	1520	67 3.09	35 8.88	192 8.35	--	0.0 3.38	206 3.38	--	267 7.53	--	0.5	--	-- 130								
R07250.00 09/04/66 5000 5050					74.3F 8.2	8.5 8.2	1430	65 3.24 24	29 7.66 16 57	176 7.66 16 57	8.3 0.16	4.0 2.27	190 3.12 23 25	165 3.43	242 6.82	2.6 0.14	0.7	--	836 789	294 115							

SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P.M. u	DO SAT	TEMP F	PH L/AH FLD	EC L/R FLD	CA	MG	NA	K	CO3	HCO3	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS				TH SUM
												CL	SO4	NO3	F	H	A	S	I	
R07375+00 10/05/65 0750	55.32 172.0	7.8 63.0F	8.3 7.4	1080	--	--	130	--	4.0 0.13	174 2.85	105 2.14	183 5.16	--	--	.30	--	--	--	224 75	
R07375+00 11/02/65 0900	54.23 39.0	8.4 57.0F	8.2 7.3	2670	--	--	344	--	0.0	225 3.69	323 6.72	580 16.36	--	--	.70	--	--	--	555 371	
R07375+00 11/30/65 0830	53.05 867.0	10.3 44.0F	8.0 7.2	733	--	--	89	--	0.0	140 2.30	95 1.94	95 2.68	--	--	.50	--	--	--	164 49	
R07375+00 01/04/66 0925	61.56 1990.0	11.2 42.0F	8.0 7.6	451	--	--	44	--	0.0	106 1.74	65 1.35	46 1.30	--	--	.20	--	--	--	108 21	
R07375+00 02/08/66 0910	56.68 415.0	10.4 47.0F	8.3 7.6	1130	--	--	144	--	2.0 0.07	158 2.59	177 3.69	170 4.79	--	--	0.8	--	--	--	238 105	
R07375+00 03/08/66 0920	55.31 145.0	9.0 57.0F	8.1 7.4	2190	--	--	294	--	0.0	200 3.28	350 7.24	400 11.28	--	--	1.5	--	--	--	444 280	
R07375+00 04/05/66 0850	55.56 230.0	9.8 66.0F	7.9 8.0	1920	--	--	252	--	0.0	204 3.35	277 5.76	352 9.93	--	--	1.0	--	--	--	416 249	
R07375+00 05/05/66 1200	55.25 175.0	11.6 71.0F	8.0 7.6	1450	64 3.19 22	34 7.79 20	186 8.09 57	6.3 0.16 1	0.0	190 3.12	154 3.20	273 7.70	1.2 0.02	--	0.4	13	876 825	298 142		
R07375+00 06/09/66 0900	55.23 166.0	8.4 71.6F	7.5 7.7	1230	--	--	158	--	0.0	172 2.82	145 3.02	210 5.92	--	--	0.4	--	--	--	250 109	
R07375+00 07/13/66 0920	54.76 105.0	7.7 72.3F	8.0 7.8	1500 1350	68 3.39 23	35 2.88 20	184 8.04 57	--	0.0	183 3.00	134 3.20	290 8.18	--	--	0.4	--	--	--	313 163	
R07375+00 09/06/66 0800	54.75 104.0	6.4 73.0F	8.1 8.0	1840 2180	77 3.84 22	48 3.95 23	214 9.40 54	8.4 0.22 1	0.0	201 3.30	234 4.47	354 9.98	3.1 0.05	--	1.2	--	1160 1040	398 223		

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER AT FRIANT DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P.H. LAT SAMPLER	ON SAT	TEMP F	PH LAP FLD	EC LAP FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS		
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	SUM
07885.00 01/10/66 0715	1.72 27.0	7.4	39.1F	6.9 6.8	56 6.8	-- 0.22	5.0	--	0.0	19 .31	--	3.2 .09	--	.00	--	--	14 0	
07885.00 05/09/66 1330	2.50 137.0	11.2	49.0F	7.2 6.4	44 6.4	0.2 0.2	4.0 .17	0.8 .02	0.0	17 .28	1.0 .02	2.0 .06	1.6 .03	.00	10	38 32	11 0	
07885.00 07/19/66 1510	2.50 135.0	11.1	60F	7.2 7.1	38 7.1	3.6 .18	1.7 .14	3.2 .14	--	15 .25	--	2.9 .08	--	0.0	--	--	16 4	
07885.00 09/12/66 1300	2.38 1300	11.4	54F	7.1	44	3.6 .14	0.7 .06	3.4 .15	0.5 .01	17 .28	1.0 .02	2.7 .08	0.9 .01	0.2	--	45 21	12 0	

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER NEAR GRAYSON

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P.M. Q	DO SAT	TEMP FLD	PH FLD	FC FLD	CA MG	NA K	K CO ₃	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER										TOS SUM
										NO ₃	F	B	SI02	CL	SO ₄	HC0 ₃	CO ₃	NO ₂	NO ₃	
H07080.00 10/06/65 1010	24.4 425.0	9.7 62.0F	8.4 7.7	812	--	--	96	--	4.0 0.13	160 2.62	--	122 3.44	--	--	.20	--	--	184 47		
H07080.00 11/06/65 1030	24.10 550.0	7.3 62.0F	7.7 7.5	1460	--	--	184 8.00	--	0.0 3.97	242 3.97	--	245 6.91	--	--	.40	--	--	316 118		
H07080.00 12/02/65 1210	33.65 4250.0	10.3 52.0F	7.8 7.0	275	--	--	30 1.31	--	0.0 1.03	63 1.03	--	30 .85	--	--	.10	--	--	63 12		
H07080.00 01/07/66 1100	29.45 2920.0	9.0 50.0F	7.7 7.3	802	--	--	98 4.26	--	0.0 2.26	138 2.26	--	96 2.71	--	--	.70	--	--	168 55		
H07080.00 02/07/66 1430	24.42 1370.0	9.0 55.0F	8.3 7.5	1530	--	--	202 8.72	--	2.0 0.07	216 3.54	--	228 6.43	--	--	1.2	--	--	308 128		
H07080.00 03/02/66 1500	24.72 725.0	9.5 63.0F	8.2 7.8	1820	--	--	302 13.14	--	0.0 3.38	206 3.38	--	305 8.60	--	--	1.0	--	--	384 215		
H07080.00 04/05/66 1040	12.2 505.0	67.0F	8.2 8.3	1580	--	--	196 8.53	--	0.0 3.51	214 3.51	--	260 7.33	--	--	1.0	--	--	348 173		
H07080.00 05/05/66 1005	13.0 500.0	69.0F	8.1 8.0	1330	62 3.09	35 2.88	166 7.22	4.0 0.10	0.0 3.51	214 3.12	150 6.06	215 6.47	5.4 0.09	--	0.3	1.4	804 757	300 125		
H07080.00 06/02/66 1105	14.1 500.0	73.4F	8.2 8.4	1100	--	--	130 5.66	--	0.0 3.35	204 3.35	--	165 4.65	--	--	0.2	--	--	256 89		
H07080.00 07/16/66 1045	13.6 500.0	73.0F	7.8 8.4	1530	45 3.24	45 3.70	169 7.35	--	0.0 4.03	246 4.03	--	258 7.28	--	--	0.5	--	--	349 148		
H07080.00 08/06/66 0850	9.3 500.0	74.0F	8.2 8.2	1460	59 2.94	45 3.73	169 7.35	--	0.0 3.94	240 3.94	--	227 6.40	--	--	0.5	--	--	334 137		
H07080.00 09/04/66 1120	11.1 500.0	75.0F	8.4 8.4	1410	64 3.34	38 3.12	167 7.24	5.9 0.15	0.0 2	208 3.41	174 3.54	236 6.64	5.4 0.09	--	0.7	--	--	854 803		

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER AT WAZE ROAD BRIDGE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	DN SAT	TEMP FLD	PH FLD	EC FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	SI02	MILLIGRAMS PER LITER				
																		MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUF	MILLIGRAMS PER LITER PERCENT REACTANCE VALUF	MILLIGRAMS PER LITER		
																			TDS	TH	NCH	
R07040.00 10/04/65 0905	18.50 2370.0	7.9	67.0F	8.1 7.4	413	--	--	44 1.91	--	0.0	84 1.38	--	66 1.86	--	--	.10	--	--	--	90	21	
R07040.00 11/04/65 1000	14.95 2690.0	8.3	61.0F	7.2 7.2	516	--	--	56 2.44	--	0.0	84 1.38	--	82 2.31	5	--	.20	--	--	--	108	39	
R07040.00 12/02/65 1040	23.85 6140.0	9.7	53.0F	7.5 7.1	199	--	--	14 .74	--	0.0	49 .40	--	22 .62	--	--	.00	--	--	--	49	9	
R07040.00 01/07/66 1000	21.95 4700.0	9.3	50.0F	7.6 7.2	577	--	--	65 2.87	--	0.0	104 1.71	--	74 2.09	--	--	.40	--	--	--	126	41	
R07040.00 02/07/66 1520	21.22 4145.0	9.0	51.0F	7.1 7.3	440	--	--	54 2.35	--	0.0	83 1.36	--	67 1.89	--	--	0.3	--	--	--	100	32	
R07040.00 03/09/66 1430	18.42 2540.0	8.9	58.0F	7.9 7.3	742	--	--	90 3.92	--	0.0	134 2.20	--	126 3.55	--	--	0.4	--	--	--	170	60	
R07040.00 04/05/66 1220	14.70 7050.0	10.9	70.0F	8.2 8.2	1210	--	--	134 6.00	--	0.0	178 2.92	--	220 6.20	--	--	0.5	--	--	--	266	120	
R07040.00 05/05/66 0800	14.27 5490.0	9.4	68.0F	7.9 7.6	1220	63 3.14	29 2.38	141 6.13	5.2 1.3	0.0	192 3.15	102 2.12	222 6.26	6.0 1.0	--	0.3	20	756 683	276 119			
R07040.00 06/09/66 1245	14.13 5540.0	13.7	73.4F	8.2 8.4	1080	--	--	127 5.52	--	0.0	184 3.02	--	190 5.36	--	--	0.1	--	--	--	240	89	
R07040.00 07/14/66 0905	13.67 4460.0	9.5	73.5F	8.0 8.2	1240 1250	64 3.19	31 2.55	142 6.14	--	0.0	200 3.28	--	244 6.88	--	--	0.4	--	--	--	289	125	
R07040.00 09/06/66 1310	14.06 5370.0	10.0	78.0F	8.1 8.3	1300 1300	63 3.14	32 2.93	154 6.87	5.6 1.4	0.0	210 3.44	112 2.33	245 6.91	4.4 1.0	--	0.5	--	805 724	291 119			

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER NEAR MENDOTA

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. LAH SAMPLER	DO SAT	TEMP F	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUF						MILLIGRAMS PER LITER TDS						
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	5102	SUM
R07710+00 10/11/65 1050	2+93 10R+0	10.7	72.0F	8.2 7.8	455	--	--	47 2.04	--	0.0	95 1.56	--	65 1.83	--	.10	--	--	107 29
R07710+00 11/08/65 1445	2+84 87+0	12.8	68.0F	8.4 8.2	627	--	--	70 3.05	--	2.0	104 1.71	--	106 2.99	--	.20	--	--	134 45
R07710+00 12/13/65 1430	2+31 50+0	18.3	52.0F	8.3 8.3	571	--	--	64 2.87	--	2.0	88 1.44	--	86 2.43	--	.30	--	--	122 47
R07710+00 01/10/66 1505	4+0 0	14.1	55.0F	8.1 8.1	568	--	--	63 2.74	--	0.0	99 1.62	--	90 2.54	--	.20	--	--	122 41
R07710+00 02/18/66 1355	2+31 32+0	23.6	55.0F	8.5 8.4	922	--	--	113 4.92	--	4.0	122 2.00	--	144 4.06	--	0.3	--	--	192 86
R07710+00 03/15/66 1430	3+74 266+0	10.7	63.0F	8.1 7.8	786	--	--	88 3.83	--	0.0	116 1.90	--	125 3.53	--	0.4	--	--	176 81
R07710+00 04/11/66 1510	3+55 214+0	11.4	71.0F	7.9 7.8	472	--	--	44 2.00	--	0.0	90 1.48	--	60 1.69	--	0.1	--	--	120 46
R07710+00 05/09/66 0830	4+09 350+0	9.5	--	7.9 7.8	257	17 45	7.4 .61	23 1.00	1.8 .05	0.0	67 1.10	23 .49	29 .82	1.5 .02	0.1	4.0	164 140	73 18
R07710+00 06/13/66 1305	4+64 420+0	9.3	76.5F	8.1 7.9	354	--	--	34 1.48	--	0.0	91 1.49	--	41 1.16	--	.00	--	--	96 22
R07710+00 07/11/66 0825	4+53 436+0	9.6	68.5F	6.0 7.7	465	22 1.10	13 1.07	47 2.04	--	0.0	89 1.46	--	69 1.95	--	0.2	--	--	108 35
R07710+00 08/12/66 0900	3+45 270+0	9.2	70 F	7.8 7.8	643	24 1.20	17 1.40	71 3.09	2.5 .06	0.0	107 1.75	5.9 .12	111 3.13	2.0 .03	0.3	--	361 286	130 43

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER AT PATTERSON BRIDGE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAT LONG	TEMP F	PH LAR FLD	FC LAR FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS					
					CA	MG	NA	K	CO ₃	HCO ₃	SU ₄	CL	NO ₃	F	B	SI02	SUM	TH NCH
407200.00 10/05/65 5050	33.25	4.3	66.0F 7.4	7.2	7.2	--	--	7.6	--	0.0	153	--	108	--	.10	--	426	154
								3.31		2.51			3.05					29
407200.00 11/02/65 5050	31.14	61.0F	8.4 7.4	1.490	--	--	--	1.84	--	6.0	192	--	265	--	.60	--	912	300
								8.00		.20	3.15		7.47					133
407200.00 11/30/65 5050	34.27	10.0	52.0F 7.0	2.93	--	--	--	3.2	--	0.0	73	--	31	--	.10	--	183	67
								1.39		1.20			.87					7
407200.00 01/04/66 5050	41.41	11.0	44.0F 7.3	4.56	--	--	--	5.0	--	0.0	100	--	52	--	.20	--	292	102
								2.18		1.64			1.47					20
407200.00 02/02/66 5050	40.4	49.0F	8.4 7.5	1.640	--	--	--	2.22	--	2.0	206	--	258	--	1.2	--	1380	322
								9.66		.07	3.38		7.28					150
407200.00 03/04/66 5050	10.1	60.0F	8.0 7.7	1.890	--	--	--	2.66	--	0.0	216	--	328	--	1.2	--	1320	368
								11.57		3.54			9.25					191
407200.00 04/21/66 5050	--	--	8.2	1.410	--	--	--	1.74	--	0.0	384	--	240	--	0.5	--	868	294
								7.79		6.30			6.77					0
407200.00 05/05/66 5050	13.1	70.0F	8.0 8.1	1.340	62	31	176	4.5	0.0	0.0	202	164	220	5.9	0.2	16	772	283
								3.09		.12	3.31	3.41	6.20	.09				118
								23	19	57	25	26	48	1				
407200.00 06/09/66 5050	12.9	73.4F	8.4 8.4	1.040	--	--	--	1.30	--	4.0	180	--	150	--	0.1	--	636	218
								5.66		.13	2.95		4.23					64
407200.00 07/14/66 5050	13.3	73.5F	8.0 8.4	1.490	66	34	174	--	0.0	0.0	217	--	257	--	0.5	--	--	303
								7.74		3.56			7.25					125
407200.00 09/04/66 5050	8.5	75 F	8.3 8.4	1.410	65	35	169	5.9	--	213	175	231	2.5	0.7	--	831	306	
								3.24		3.49	3.64	6.51	.04					132
								24	21	54	26	27	48					

TABLE D-2 (Cont.)

SAN JOAQUIN RIVER NEAR VERNALIS

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAT LONG	NO SAT	TEMP F	PH FLD	FC FLD	CA MG	NA MG	K MG	CO ₃ MG	HCO ₃ MG	CL MG	SO ₄ MG	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER PFC REACTANT VALUE				MILLIGRAMS PER LITER TDS SUM			
													R7	R7	R7	R7	F	B	S102	TDS SUM
407020.00 10/06/65 0745	14.45 2951.0	8.2	66.0F	8.0 7.2	323	--	4.0 1.74	--	0.0	0.0	56 1.58	--	0.10	--	--	69 18				
407020.00 11/03/65 0900	14.13 2720.0	59.0F	8.1 7.1	4.06 7.1	--	4.2 1.83	--	0.0	0.0	73 1.80	--	64	--	0.20	--	90 30				
407020.00 12/01/65 0840	14.31 6410.0	10.2	50.0F	7.7 7.0	209	--	19 .83	--	0.0	0.0	53 .87	22 .62	--	0.00	--	51 8				
407020.00 01/05/66 1055	20.55 4900.0	11.1	42.0F	7.4 7.2	320	--	32 1.39	--	0.0	0.0	77 1.26	36 1.02	--	0.10	--	79 16				
407020.00 02/09/66 1025	16.42 5010.0	10.6	42.0F	7.5 7.3	530	--	6.0 2.61	--	0.0	0.0	91 1.49	74 2.09	--	0.2	--	112 38				
407020.00 03/03/66 1000	13.41 2660.0	10.4	57.0F	8.0 7.3	693	--	4.0 3.44	--	0.0	0.0	110 1.80	112 3.16	--	0.3	--	150 60				
407020.00 04/04/66 0840	11.11 955.0	9.3	66.0F	7.6	842	46 2.30	19 1.56	94 4.09	7.4 .19	0.0	150 2.46	82 1.71	132 3.72	0.0	0.3	20 480				
407020.00 05/04/66 1135	10.53 770.0	14.5	72.0F	7.5 8.2	837	24 1.40	46 3.78	67 2.91	5.1 .13	0.0	143 3.00	95 1.98	104 2.93	0.2 .06	0.3	16 455				
407020.00 06/08/66 0845	10.45 740.0	9.4	7. F	8.2 8.2	1040	56 2.79	24 1.97	119 5.14	4.8 .12	0.0	178 2.92	81 1.64	180 5.08	0.3 .08	0.1	27 585				
407020.00 07/13/66 1045	8.72 501.0	12.2	75 F	8.5 8.4	1240	62 3.09	34 2.79	142 6.14	--	8.0	181 2.97	--	236 6.66	--	0.4	-- 132				
407020.00 08/03/66 1120	8.47 549.0	10.9	81.5F	8.2 8.4	1200	58 2.89	32 2.63	140 6.45	5.4 .14	0.0	196 3.21	92 1.91	220 6.20	0.2 .11	0.4	24 675				
407020.00 09/07/66 0915	10.13 713.0	8.4	73 F	8.1 7.4	1220	54 2.49	30 2.47	186 6.35	4.5 .12	0.0	196 3.21	105 2.19	225 6.35	0.3 .11	0.3	26 698				

TABLE D-2 (Cont.)

STANISLAUS RIVER AT KOEITZ

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.H. Q	DO SAT	TEMP	PH FLD	EC FLD	CA	MG	NA	K	MILLIGRAMS PER LITER PFCENT REACTANCE VALUE	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
												CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SI02
R03115.00 10/05/65 1030	5000 5050	29.10 410.0	8.6 66.0F	7.2	8.1 16A	--	--	--	9.1 .40	--	0.0 1.34	82 .10	--	3.6	--	.00	--	--	63 0
R03115.00 11/02/65 1240	5000 5050	29.65 470.0	61.0F	7.1	7.4 145	--	--	--	7.1 .31	--	0.0 1.25	76 .09	--	3.2	--	0.1	--	--	57 0
R03115.00 11/30/65 1205	5000 5050	31.99 963.0	10.5 55.0F	7.0	7.7 106	--	--	--	4.6 .20	--	0.0 .85	52 .06	--	2.2	--	.00	--	--	44 2
R03115.00 01/04/66 1230	5000 5050	34.89 1772.0	11.8 46.0F	7.0	7.6 97	--	--	--	3.8 .17	--	0.0 .74	45 .05	--	1.6	--	.00	--	--	38 1
R03115.00 02/08/66 1230	5000 5050	34.86 1790.0	12.0 48.0F	7.2	7.6 105	--	--	--	4.1 .18	--	0.0 .84	51 .05	--	1.8	--	.00	--	--	43 1
R03115.00 03/08/66 1240	5000 5050	29.83 269.0	10.6 61.0F	7.4	8.2 243	--	--	--	12 .52	--	0.0 2.03	124 .21	--	7.3	--	.00	--	--	96 0
R03115.00 04/05/66 1145	5000 5050	27.98 210.0	9.8 70.0F	8.0	8.4 253	--	--	--	14 .61	--	2.0 .07	127 2.08	--	4.2	--	0.1	--	--	99 0
R03115.00 05/05/66 0850	5000 5050	27.61 202.0	9.4 66.0F	7.3	8.2 244	22	9.7	12	9.7 .52	1.9 .05	0.0 2.08	127 .21	10 .07	7.3	--	.00	28	168 158	95 0
R03115.00 06/09/66 1210	5000 5050	27.36 170.0	9.0 74.3F	7.8	7.6 284	--	--	--	17 .74	--	0.0 2.41	147 .23	--	4.0	--	.00	--	--	106 0
R03115.00 07/14/66 0950	5050 5050	26.90 94.0	9.2 69.5F	8.1	7.7 270	25	10	15	15 .65	--	0.0 2.35	143 .28	--	1.0	--	0.0	--	--	104 0
R03115.00 09/06/66 1230	5050 5050	26.65 77.0	7.8 75 F	7.7	8.5 322	34	12	17	17 .74	2.7 .07	6.0 2.64	161 .21	10 .06	4.0	--	0.1	--	185 175	133 0

TABLE D-2 (Cont.)

STANISLAUS RIVER ABOVE MELONES RESERVOIR

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER LAR DATE TIME	G.M. O	COO SAT	TEMP FLD	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER TDS					
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SI0 ₂	SUM	TH	NCH			
R31340.50 03/16/66 1210			--	7.3	42	4.8 .24 55	1.0 .08 18	2.2 .10 23	0.7 .02 5	0.0 0.0 0.0	22 .36 97	0.0 .01 3	0.4 0.1 3	0.3	--	.00	13	35 33	16 0				
R31340.50 04/11/66 0945		12.6	49.0F	7.5 7.0	34	--	--	1.4 .04	--	0.0 0.0	18 .30	--	0.2 .01	--	--	0.1	--	31	12 0				
R31340.50 05/09/66 1055		10.9	51.0F	7.5 6.8	34	4.2 .21 54	0.6 .05 14	1.4 .04 22	0.8 .02 6	0.0 0.0 0.0	18 .30 91	1.0 .02 3	0.3 0.1 3	0.3	--	.00	10	33 28	13 0				
R31340.50 07/11/66 1230		10.5	62.0F	7.6 7.4	54	6.1 .30	0.7 .06	1.4 .04	--	0.0 0.0	28 .46	--	1.0 .03	--	--	.00	--	--	18 0				
R31340.50 09/14/66 1545		10.4	60.5F	7.6 7.9	50	7.7 .38 69	0.7 .06 11	2.0 .09 16	0.7 .02 4	0.0 0.0 0.0	27 .44 96	0.2 .02 4	0.7 .02 4	0.0	--	0.0	--	32 25	22 0				

TABLE D-2 (Cont.)
 STANISLAUS RIVER BELOW TULLOCH DAM
 MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P.S. LAB SAMPLE	MO SAT	TEMP	PH		EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE		MILLIGRAMS PER LITER		MILLIGRAMS PER LITER		TH NCH			
				LAB FLD	CA		MG	NA	K	CO3	HCO3	SO4		CL	NO3	F
432150.00 01/10/66 1015	5000 5050	11.5	47.0F	7.3 7.0	-- --	96	0.0	0.0	44 .72	-- 1.4	44 .04	-- --	0.00	--	--	40
432150.00 05/09/66 0915	5000 5050	11.0	--	7.6 7.0	4.4 2.4 4.4	48	0.0	0.0	25 .41 91	1.0 .02 4	25 .01 2	-- --	0.00	11	39	19
432150.00 77/19/66 0920	5000 5050	4.1	60.7F	7.2 7.0	6.5 .32	52	0.0	0.0	30 .49	-- 0.0	30 .49	-- --	0.00	--	--	22

TABLE D-2 (Cont.)

TULE RIVER NEAR SPRINGVILLE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	NO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER TDS SUM		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	\$102	CL	NO3	F	B
C31150.00 10/08/65 5000 5002	3.06 12.0	15.0	60.0F	8.0	408	--	--	23	--	0.0	246	--	11	--	--	.10	--	--	169	0	
								1.00		4.03		.31									
C31150.00 11/15/65 5000 5002	3.39 49.0	13.4	54.0F	8.1	370	--	--	20	--	0.0	218	--	8.9	--	--	.10	--	--	151	0	
								.87		3.58		.25									
C31150.00 12/04/65 5000 5002	3.44 67.0	15.1	44.0F	8.2	295	--	--	15	--	0.0	172	--	7.3	--	--	.00	--	--	193	123	
								.65		2.82		.21									
C31150.00 01/03/66 5000 5002	3.66 47.0	14.2	42.0F	8.1	269	--	--	15	--	0.0	151	--	8.2	--	--	.00	--	--	172	107	
								.65		2.48		.23									
C31150.00 02/01/66 5000 5002	3.50 77.0	12.5	44.0F	8.5	289	--	--	15	--	6.0	159	--	7.0	--	--	0.1	--	--	118	0	
								.65		.20	2.61		.20								
C31150.00 03/09/66 5000 5002	3.59 46.0	11.5	50.0F	8.2	254	--	--	13	--	0.0	148	--	6.0	--	--	.00	--	--	102	0	
								.57		2.43		.17									
C31150.00 04/04/66 5000 5002	3.44 144.0	9.0	62.0F	7.8	153	--	--	7.8	--	0.0	84	--	2.6	--	--	.00	--	--	62	0	
								.34		1.38		.07									
C31150.00 05/09/66 5000 5002	3.55 77.0	9.0	64.0F	8.0	198	28	3.4	9.2	1.8	0.0	114	2.0	4.2	0.5	--	.00	17	133	84		
						1.40	.28	.40	.05	1.87	.04	.12	.01						122	0	
						66	13	19	2	92	2	6									
C31150.00 06/06/66 5000 5002	3.21 27.0	4.9	66.0F	8.1	318	--	--	15	--	0.0	188	--	7.5	--	--	0.1	--	--	132	0	
								.65		3.08		.21									
C31150.00 07/05/66 5000 5002	2.90 5.9	4.3	70 F	8.4	376	--	--	22	--	4.0	218	--	10	--	--	0.0	--	--	220	153	
								.96		.13	3.58		.28								
C31150.00 08/02/66 5050 5002	2.40 .3	6.6	74.0F	7.9	425	47	9.1	27	--	0.0	231	--	15	--	--	0.2	--	--	155	0	
						2.35	.75	1.17			3.79		.42								
C31150.00 09/07/66 5050 5002	2.72 1.0	5.2	69 F	8.4	454	46	14	25	5.1	7.0	249	0.5	18	1.6	--	0.2	--	--	270	172	
						2.30	1.15	1.09	.13	.23	4.08	.01	.51	.03					239	0	
						49	25	23	3	5	84		10	1							

TABLE D-2 (Cont.)

TULE RIVER BELOW SUCCESS DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	OO SAT	TEMP F	PH FLO	EC FLO	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	MILLIGRAMS PER LITER		
																		TDS	SUM	NCH
C03195.00 10/08/65 0905	380.0	10.5	70.0F	8.0	217	--	--	11	--	0.0	129	--	3.7	--	--	0.1	--	142	89	0
C03195.00 11/15/65 1010	4.0	21.0	--	8.3	399	--	--	23	--	2.0	243	--	6.4	--	--	0.3	--	235	168	0
C03195.00 12/06/65 1010	4.55	13.7	54.0F	7.8	271	--	--	14	--	0.0	154	--	6.5	--	--	.00	--	177	107	0
C03195.00 01/03/66 1515	4.13	16.5	48.0F	7.9	269	--	--	15	--	0.0	152	--	7.5	--	--	.00	--	166	107	0
C03195.00 02/01/66 1200	1.31	11.5	54.0F	8.4	344	--	--	18	--	4.0	198	--	7.0	--	--	0.1	--	215	144	0
C03195.00 03/09/66 1055	3.80	11.5	52.0F	8.2	269	--	--	15	--	0.0	149	--	7.7	--	--	0.1	--	167	106	0
C03195.00 04/04/66 1535	3.05	10.5	54.0F	7.7	272	--	--	15	--	0.0	151	--	7.7	--	--	.00	--	170	109	0
C03195.00 05/09/66 1015	3.09	9.8	56.0F	8.2	255	33	4.7	14	2.0	0.0	150	5.0	6.4	0.6	--	.00	22	167	102	0
C03195.00 06/06/66 1115	4.6.0	8.7	8.0	66.0F	8.4	245	--	--	13	--	136	--	6.4	--	--	.00	--	--	98	0
C03195.00 07/05/66 0950	2.10	16.2	66 F	8.2	235	--	--	13	--	0.0	136	--	5.2	--	--	0.0	--	140	94	0
C03195.00 08/02/66 0920	2.12	11.8	74.0F	8.0	256	33	4.7	13	--	0.0	150	--	6.1	--	--	0.1	--	--	102	0
C03195.00 09/07/66 0920	1.33	6.7	72 F	8.4	332	44	5.8	16	2.8	4.0	188	1.6	7.6	1.2	--	0.1	--	190	134	0

TABLE D-2 (Cont.)

TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.P. Q	D.O. SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			TH
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	TDS	
R41265.50 03/16/66 1355			--	7.5	37	3.4 .19 50	1.0 .08 21	2.2 .10 26	0.4 .01 3	0.0	0.0	1.0 .02 6	0.4 .01 3	0.5	--	.00	10	30	14
R41265.50 04/11/66 1050		11.6	53.0F	7.3 7.0	34	--	--	1.8 .08	--	0.0	0.0	17 .28	0.3 .01	--	--	.00	--	33	12
R41265.50 05/09/66 1200		10.1	55.0F	7.3 6.8	25	3.0 .15 58	0.2 .02 8	1.5 .07 27	0.6 .02 8	0.0	0.0	1.0 .02 9	0.2 .01 4	0.2	--	.00	7.7	26	8
R41265.50 07/18/66 1020		8.9	69.0F	7.0 6.9	20	3.6 .18	0.0 .05	1.2 .05	--	0.0	0.0	11 .18	0.0	--	--	.00	--	--	9
R41265.50 09/14/66 1635		9.5	64.5F	7.0 7.1	22	1.9 .09 43	0.6 .05 24	1.3 .06 29	0.5 .01 5	0.0	0.0	9.0 .15 75	0.0 .04 20	0.5	--	0.0	--	16	7
																		11	0

TABLE D-2 (Cont.)

TUOLUMNE RIVER BELOW DON PEDRO DAM

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER L44 DATE TIME	G.P. °	DO SAT	TEMP °	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER						MILLIGRAMS PER LITER							
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SiO ₂	TDS SUM	
R41100.00 01/10/66 1100	7.60 1300.0	8.5	50.0F	7.6 6.8	67	--	--	2.4 .10	--	0.0 .51	31	--	0.9 .03	--	.00	--	--	28 3	
R41100.00 05/09/66 1255	8.37 1490.0	9.5	--	7.1 6.8	39	4.2 .21 51	1.1 .09 22	2.0 .09 22	0.6 .02 5	0.0	20 .33 92	1.0 .02 6	0.5 .01 3	0.3	--	.00	8.1	32 28	15 0
R41100.00 07/18/66 1130	8.0 2070.0	8.0	77 F	7.1 7.1	40	5.0 .25	1.3 .11	1.8 .08	--	0.0 .36	22	--	1.0 .03	--	0.0	--	--	--	18 0

TABLE D-2 (Cont.)

TUOLUMNE RIVER AT HICKMAN BRIDGE

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. LAT SAMPLER	DD TEMP SAT	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS SUM								
					CA	MG	NA	K	CL	CO ₃	HCO ₃	SO ₄	NO ₃	F	B	SIO ₂	CL	SO ₄	NO ₃	F	B	SIO ₂	TDS
R04150.00 10/06/65 1335	5000 5204	73.00 15000.0	10.4 66.0F 7.5 7.1	45	--	--	2.8 .12	--	--	0.0 .30	18 .07	--	2.6 .07	--	--	.00	--	--	--	--	--	--	14 0
R04150.00 11/04/65 1320	5000 5204	72.34 868.0	10.0 61.0F 7.2 6.8	51	--	--	3.7 .16	--	--	0.0 .33	20 .11	--	3.8 .11	--	--	.00	--	--	--	--	--	--	16 0
R04150.00 12/06/65 1020	5000 5204	74.29 2503.0	10.7 51.0F 7.2 6.9	56	--	--	3.2 .14	--	--	0.0 .39	24 .06	--	2.2 .06	--	--	.00	--	--	--	--	--	--	20 1
R04150.00 01/10/66 1015	5000 5204	72.61 1080.0	8.6 49.0F 7.5 6.8	90	--	--	4.2 .18	--	--	0.0 .59	36 .12	--	4.1 .12	--	--	.00	--	--	--	--	--	--	34 5
R04150.00 02/07/66 1120	5000 5204	72.93 1395.0	11.4 47.0F 7.9 7.2	74	--	--	4.2 .18	--	--	0.0 .49	30 .14	--	4.9 .14	--	--	0.1	--	--	--	--	--	--	25 1
R04150.00 03/08/66 1600	5000 5204	72.51 1091.0	10.3 52.0F 7.8 7.7	85	--	--	5.0 .22	--	--	0.0 .56	34 .16	--	5.5 .16	--	--	.00	--	--	--	--	--	--	29 1
R04150.00 04/05/66 1335	5000 5050	70.30 120.0	10.0 73.4F 8.3 8.0	443	--	--	45 1.96	--	--	1.0 .03	87 1.43	--	88 2.48	--	--	.00	--	--	--	--	--	--	100 27
R04150.00 05/09/66 0755	5000 5050	70.25 113.0	7.5 -- 7.7 7.2	486	28 1.40 31	9.2 .76 17	50 2.18 49	5.5 .14 3	0.0 .08 2	98 2.82 62	4.0 .08 2	100 2.82 62	1.2 .02	0.1 41	--	--	--	--	--	--	--	338 287	108 28
R04150.00 06/23/66 0950	5000 5050	70.15 96.0	9.1 72.0F 8.2 8.3	521	--	--	54 2.35	--	--	0.0 1.71	104 2.99	--	106 2.99	--	--	.00	--	--	--	--	--	--	116 31
R04150.00 07/18/66 0820	5050 5050	70.07 47.0	7.7 73.7F 7.8 7.9	590	31 1.55	12 .99	62 2.70	--	--	0.0 1.79	109 3.53	--	125 3.53	--	--	0.1	--	--	--	--	--	--	126 37
R04150.00 09/07/66 1015	5050 5050	70.14 58.0	7.4 F 7.7 7.7	588	32 29	16 1.32 24	57 2.48 45	6.0 .15 3	0.0 1.72 33	105 3.44 1	2.1 .04 33	122 3.44 66	1.4 .02	0.1 288	--	--	--	--	--	--	--	370 288	131 45

TABLE D-2 (Cont.)

TUOLUMNE RIVER AT TUOLUMNE CITY

MINERAL ANALYSIS OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. C	DO SAT	TEMP	PH LAB FLO	EC LAB FLO	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	MILLIGRAMS PER LITER				TDS SUM	TH NCH
															F	B	SIO ₂	SUM		
R04105.00 10/06/65 1050 5204	27.50 1640.0	7.7 7.0	66.0F	7.6 7.0	196	--	--	19 .83	--	0.0 .62	0.0 38	--	38 1.07	--	--	.10	--	--	--	42 11
R04105.00 11/04/65 1100 5204	27.32 1600.0	7.9 6.8	61.0F	7.8 6.8	189	--	--	17 .74	--	0.0 .57	0.0 35	--	36 1.02	--	--	.00	--	--	--	44 16
R04105.00 12/03/65 1100 5204	30.95 3470.0	10.1 7.0	52.0F	7.2 7.0	135	--	--	11 .48	--	0.0 .56	0.0 34	--	20 .56	--	--	.00	--	--	--	38 10
R04105.00 01/07/66 1115 5204	27.80 1830.0	8.0 6.8	50.0F	8.0 6.8	234	--	--	20 .87	--	0.0 .95	0.0 58	--	35 .99	--	--	.00	--	--	--	62 15
R04105.00 02/07/66 1410 5204	30.27 3010.0	8.8 7.0	50.0F	7.6 7.0	136	--	--	10 .44	--	0.0 .61	0.0 37	--	17 .48	--	--	0.1	--	--	--	36 6
R04105.00 03/08/66 1515 5204	26.90 1415.0	7.4 6.8	57.0F	7.8 6.8	229	--	--	20 .87	--	0.0 .89	0.0 54	--	38 1.07	--	--	.00	--	--	--	56 12
R04105.00 04/05/66 1115 5050	23.89 370.0	6.2 7.2	69.0F	8.3 7.2	696	--	--	70 3.05	--	1.0 .03	1.0 2.08	--	14.3 4.03	--	--	0.2	--	--	--	158 53
R04105.00 05/09/66 0915 5050	23.44 276.0	8.0 7.2	69.0F	8.0 7.2	876	51 2.34	16 1.32	96 4.18	6.7 .17	0.0 2.53	154 .25	12 3	189 5.33	5.4 .09	--	0.1	32	556 484	192 66	
R04105.00 06/09/66 1135 5050	23.28 245.0	7.6 7.4	74.3F	8.0 7.4	866	--	--	94 4.26	--	0.0 2.59	158 2.59	--	185 5.22	--	--	.00	--	--	--	196 67
R04105.00 07/14/66 1030 5050	23.10 212.0	8.3 7.6	72.0F	7.8 7.6	1010	57 2.84	17 1.40	100 4.35	--	0.0 2.95	180 2.95	--	216 6.09	--	--	0.1	--	--	--	211 64
R04105.00 09/06/66 1145 5050	23.15 221.0	5.5 7.7	75 F	8.1 7.7	1000	56 2.79	22 1.81	103 4.48	--	0.0 2.84	173 .19	8.9 5.89	209 .09	5.7 1	--	0.2	--	565 490	232 90	

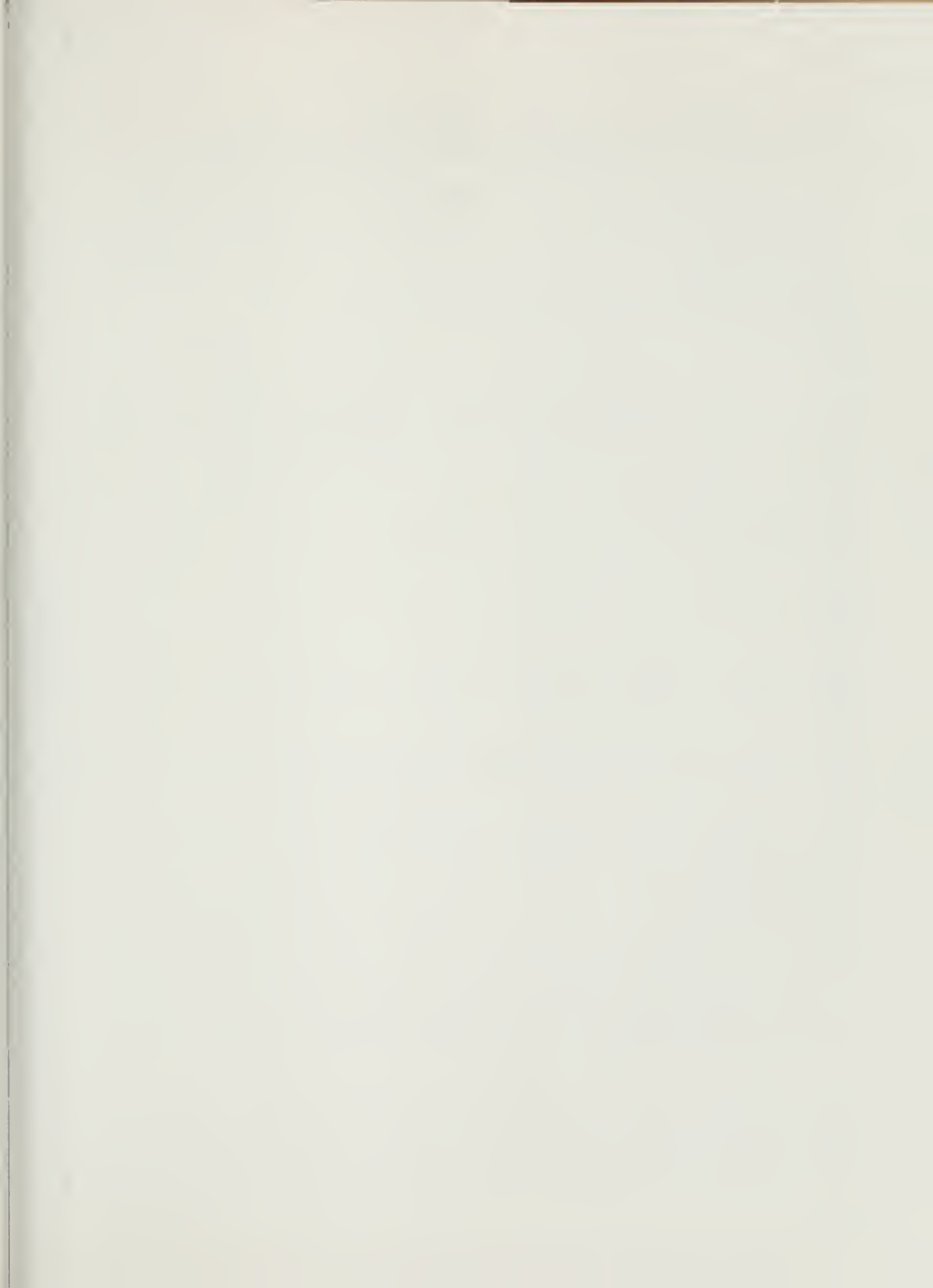


TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

This table is a tabulation of the spectrographic analyses performed by the U. S. Geological Survey laboratory in Sacramento. The following is a list of the letters and their meanings which appear on the table:

M = Milligrams per liter

U = Micrograms per liter

Y = Less than the amount indicated

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAT	AL LI	AS MN	BF MO	HI NI	HH PB	CN TI	CU V	CR ZN	FE	GA	GE
R00475+00	05-04-66	5000	--	00+00M	--	--	--	--	--	--	--	--	--
R00475+00	09-06-66	5050	--	00+00M	--	--	--	--	--	--	--	--	--
R00770+00	05-04-66	5000	021+U	00+00M 001+4UY	00+57UY 005+4U	00+29UY	--	001+4UY 003+7U	001+4UY 003+7U	005+7UY 005+7UY	001+4UY	--	005+7UY 00+29UY
R00770+00	09-07-66	5050	009B+U	--	00+57UY 001+7U	00+29UY	--	001+4UY 002+2U	001+4UY 005+4U	001+4UY 005+7UY	001+4UY 005+7UY	005+7UY	005+7UY 00+29UY
R03115+00	05-04-66	5000	0012+U	00+00M	00+57UY 001+4UY	00+29UY	--	001+4UY 002+6U	001+4UY 005+7UY	001+4UY 005+7UY	001+4UY 005+7UY	005+7UY	005+7UY 00+29UY
R03115+00	09-04-66	5000	0016+U	00+00M	00+57UY 00+29UY	00+29UY	--	001+4UY 002+1U	001+4UY 006+0U	001+4UY 005+7UY	001+4UY 002+3+U	005+7UY	005+7UY 00+29UY
R04105+00	05-05-66	5000	0011+U	00+00M	00+57UY 002+6U	00+29UY	--	001+4UY 002+2U	001+4UY 006+9U	001+4UY 005+7UY	007+7U	005+7UY	005+7UY 00+29UY
R04105+00	09-04-66	5000	0018+U	00+00M	00+57UY 0086+U	00+29UY	--	001+4UY 001+4UY	001+4UY 006+3U	001+4UY 005+7UY	001+4UY 0087+U	005+7UY	005+7UY 00+29UY
R04150+00	05-04-66	5000	--	00+00M	--	--	--	--	--	--	--	--	--
R04150+00	09-07-66	5000	0011+U	00+01M 001+4UY	00+57UY 003+1U	00+29UY	--	001+4UY 001+4UY	001+4UY 000+5U	001+4UY 005+7UY	001+4UY 0015+U	005+7UY	005+7UY 00+29UY
R05125+00	05-04-66	5000	0011+U	00+00M	00+57UY 002+9U	00+29UY	--	001+4UY 001+3U	001+4UY 003+1U	001+4UY 005+7UY	006+3U	005+7UY	005+7UY 00+29UY
R05125+00	09-04-66	5000	0006+2U	00+00M	00+57UY 002+9U	00+29UY	--	001+4UY 001+5U	001+4UY 000+5U	001+4UY 005+7UY	0025+U	005+7UY	005+7UY 00+29UY
R07020+00	04-04-66	5000	0004+0U 00+03M	--	001+3UY 004+1U	00+67UY	--	003+3UY 001+3UY	003+3UY 003+6U	003+3UY 0013+U	008+0U	0013+UY	0013+UY 00+67UY
R07020+00	05-04-66	5000	0021+U 00+02M	00+00M	00+57UY 005+4U	00+29UY	--	001+4UY 001+4UY	001+4UY 004+9U	001+4UY 005+7UY	0011+UY	005+7UY	005+7UY 00+29UY
R07020+00	04-14-66	5000	0004+0U 00+01MY	--	00+67UY 005+3U	00+33UY	--	001+7UY 001+7UY	001+7UY 001+7UY	001+7UY 001+7UY	006+0U	006+7UY	006+7UY 00+33UY
R07020+00	04-03-66	5000	00+01M	--	--	--	--	--	--	--	--	--	--
R07020+00	09-07-66	5050	0015+U	00+00M 001+4UY	00+57UY 003+4U	00+29UY	--	001+4UY 001+4UY	001+4UY 005+1U	001+4UY 005+7UY	0011+U	005+7UY	005+7UY 00+29UY

TABLE D-3 (cont.)
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAR	AL	LI	AS	BF	BI	HR	CD	CO	CH	CU	FE	GA	GE
					MN	MO	NI	PH	TI	V	ZN				
R0704.00	05-05-66	5000	--	--	00.01M	--	--	--	--	--	--	--	--	--	--
R0704.00	09-06-66	5050	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R0704.00	05-05-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R0704.00	09-06-66	5050	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R0720.00	05-05-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R0720.00	09-06-66	5050	--	--	00.01M	--	--	--	--	--	--	--	--	--	--
R0725.00	05-05-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R0725.00	09-06-66	5050	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R07375.00	05-05-66	5000	005.4U	--	00.00M	00.570Y	00.290Y	--	001.40Y	001.40Y	001.40Y	008.9U	004.9U	005.7UY	00.290Y
R07375.00	09-06-66	5050	0015.0	--	00.00M	00.570Y	00.290Y	--	001.40Y	001.40Y	001.40Y	001.40Y	003.4U	005.7UY	00.290Y
R07710.00	05-09-66	5000	--	--	00.00M	007.7U	006.0U	001.40Y	00.570Y	003.4U	005.70Y	--	--	--	--
R07885.00	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R31340.50	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R32150.00	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R41100.00	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R41265.50	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--
R51200.00	05-09-66	5000	--	--	00.00M	--	--	--	--	--	--	--	--	--	--

TABLE D-3 (cont.)

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAR	AL	AS	BE	BI	BR	CD	CO	CH	CU	FE	GA	GE
R6200.00	05-16-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
R67150.00	05-18-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
R95925.00	05-04-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
R95925.00	09-07-66	5000	0057.0	00.00M	00.570Y	00.290Y	--	001.40Y	001.40Y	001.40Y	001.40Y	0027.0	005.70Y	00.290Y
			--	0010.0	0021.0	008.00	001.40Y	000.90	005.40	005.70Y	--	--	--	--
C01140.00	05-09-66	5000	0013.0	00.00M	00.570Y	00.290Y	--	001.40Y	001.40Y	001.40Y	004.90	0020.0	005.70Y	00.290Y
			--	001.40Y	002.50	002.60	001.40Y	00.570Y	000.80	005.70Y	--	--	--	--
C01140.00	09-12-66	5000	0010.0	--	00.570Y	00.290Y	--	001.40Y	001.40Y	001.40Y	001.40Y	0021.0	005.70Y	00.290Y
			--	001.40Y	002.20	002.30	001.40Y	00.570Y	000.50	005.70Y	--	--	--	--
C02185.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C03195.00	05-09-66	5000	0025.0	00.00M	00.570Y	00.290Y	--	001.40Y	001.40Y	005.70Y	001.40Y	--	005.70Y	00.290Y
			--	001.40Y	00.290Y	--	001.40Y	00.570Y	001.40	005.70Y	--	--	--	--
C03195.00	09-07-66	5000	00.00M	--	--	--	00.00M	--	--	00.00M	--	00.26M	--	--
			--	00.30M	--	--	00.00M	--	--	--	--	--	--	--
C05150.00	05-05-66	5000	0018.0	00.04M	00.570Y	00.290Y	--	001.40Y	001.40Y	005.70Y	001.40Y	--	005.70Y	00.290Y
			--	001.40Y	0013.0	--	001.40Y	00.570Y	003.40	005.70Y	--	--	--	--
C05150.00	09-07-66	5000	00.00M	00.01M	--	--	00.00M	--	--	00.00M	--	00.16M	--	--
			--	00.04M	--	--	00.00M	--	--	00.00M	--	--	--	--
C11140.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C11320.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C11460.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	05-09-66	5000	--	00.00M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
C51350.00	05-05-66	5000	0015.0	00.01M	00.570Y	00.290Y	--	001.40Y	001.40Y	005.70Y	001.40Y	--	005.70Y	00.290Y
			--	001.40Y	005.40	--	001.40Y	00.570Y	000.50	005.70Y	--	--	--	--

TABLE D-3 (cont.)

STATION NO.	DATE	IAR	TRACE MINERAL ANALYSES OF SURFACE WATER															
			AL LI	AS MN	HF MO	HI NI	BR PH	CD TI	CO V	CR ZN	CU	FE	GA	GE				
C51350.00	10-03-66	5000	003.3UY --	-- 003.3UY	001.3UY 00.67UY	00.67UY 002.7U	-- 003.3UY	003.3UY 003.3UY	003.3UY 001.3U	003.3UY 00.67UY	003.3UY 00013UY	003.3UY 007.3U	0013.0UY	00.67UY				
C51500.00	05-05-66	5000	-- --	00.00M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --				

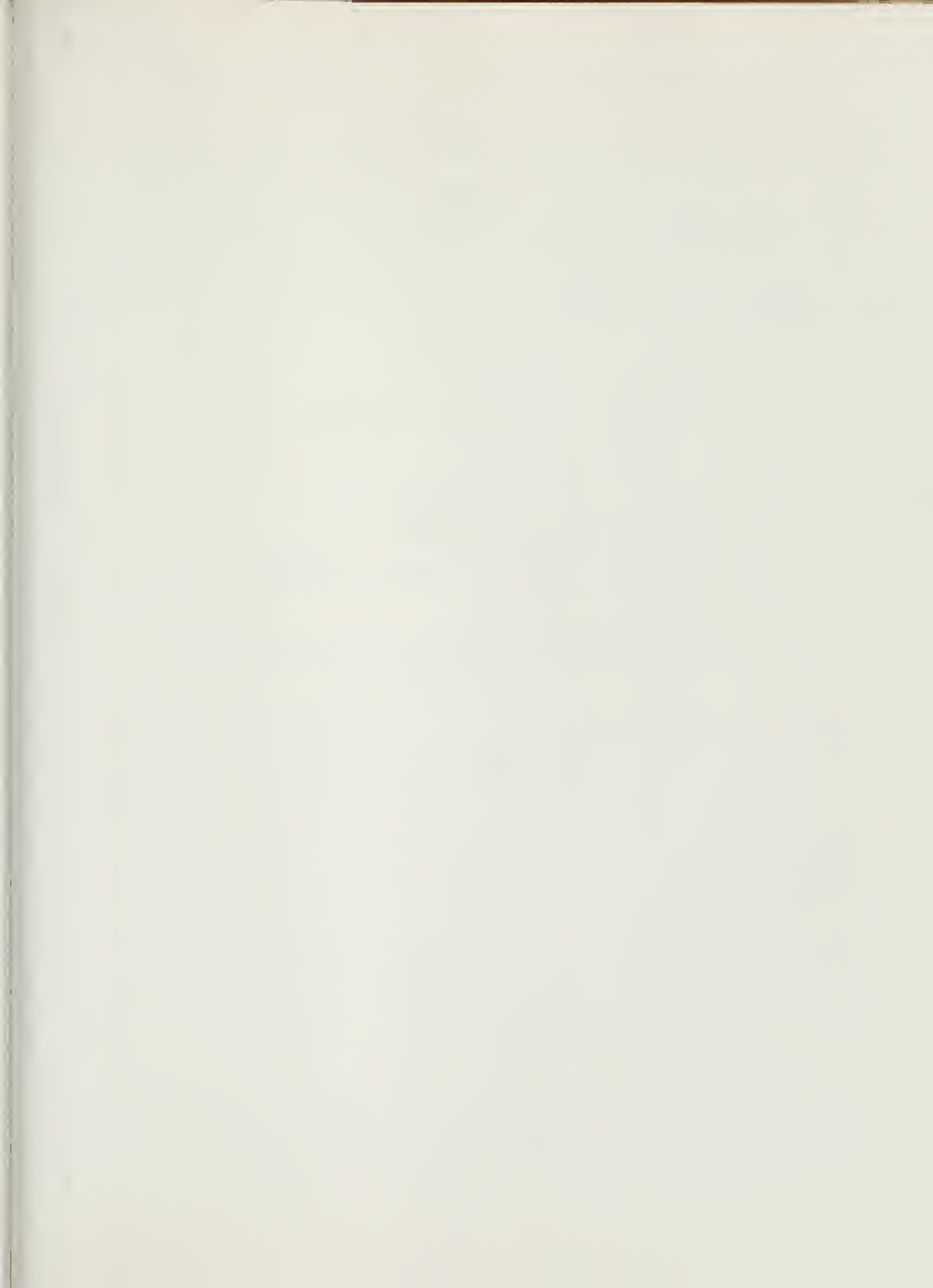


TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 is a tabulation of all the analyses which do not appear on Tables D-2 and D-3. The following is a list of letters and some abbreviations and their meanings which appear on this table:

COL = Coliform

DET = Detergents

TRB = Turbidity

P = Total phosphates

PO6 = Ortho phosphate

POT = Total and organic phosphates

H = Times 100

M = Most probable number of Coliform
per 100 milliliters

TABLE D-4

STATION NO.	DATE	LAH	COL	COL	TAH	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS				
						DET	NH4	NO2	NO3	NO	PO4	P	POT	
R00475.00	10-05-65	5000	1300. M	6200. M	0015.	--	--	--	--	--	--	--	--	--
H00475.00	11-02-65	5000	2300. M	6200. M	0015.	--	--	--	--	--	--	--	--	--
R00475.00	11-30-65	5000	6200. M	0230. HM	0025.	--	--	--	--	--	--	--	--	--
R00475.00	01-04-66	5000	0620. M	1300. M	0005.	--	--	--	--	--	--	--	--	--
R00475.00	02-04-66	5000	--	--	0015.	--	--	--	--	--	--	--	--	--
H00475.00	03-04-66	5000	0130. HM	0230. HM	0040.	--	--	--	--	--	--	--	--	--
H00475.00	04-05-66	5000	0230. HM	0230. HM	0025.	--	--	--	--	--	--	--	--	--
H00475.00	05-04-66	5000	0230. HM	2400. HM	0065.	--	--	--	--	--	--	00.48M	--	--
H00475.00	06-04-66	5000	6200. M	0130. HM	0040.	--	--	--	--	--	--	--	--	--
H00475.00	07-13-66	5050	--	--	0045.	--	--	--	--	--	--	--	--	--
R00475.00	09-06-66	5050	--	--	0045.	--	--	--	--	--	--	--	--	--
R00770.00	10-11-65	5000	0620. M	2300. M	0015.	--	--	--	--	--	--	--	--	--
H00770.00	11-04-65	5000	0230. M	0230. M	0010.	--	--	--	--	--	--	--	--	--
R00770.00	12-13-65	5000	0620. M	0620. M	0005.	--	--	--	--	--	--	--	--	--
H00770.00	01-10-66	5000	0230. M	0230. M	0010.	--	--	--	--	--	--	--	--	--
H00770.00	02-14-66	5000	0230. M	0620. M	0005.	--	--	--	--	--	--	--	--	--
H00770.00	03-14-66	5000	0620. M	2300. M	0050.	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)
 MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LAH	COL	COL	TSP	DEF	NH4	N02	N03	N0	NUTRIENTS		P	POT
											P06	N0		
R00770.00	04-11-66	5000	0500.	M	6200.	M	0040.	--	--	--	--	--	--	--
R00770.00	05-09-66	5000	2300.	M	2300.	M	0060.	--	--	--	--	00.28M	--	--
R00770.00	06-13-66	5000	6200.	M	6200.	M	0040.	--	--	--	--	--	--	--
R00770.00	07-11-66	5050	6200.	M	6200.	M	0055.	--	--	--	--	--	--	--
R03115.00	10-05-65	5000	6200.	M	0230.HM	0004.	--	--	--	--	--	--	--	--
R03115.00	11-02-65	5000	5000.	M	6200.	M	0004.	--	--	--	--	--	--	--
R03115.00	11-30-65	5000	6200.	M	6200.	M	0004.	--	--	--	--	--	--	--
R03115.00	01-04-66	5000	2300.	M	2300.	M	0005.	--	--	--	--	--	--	--
R03115.00	02-04-66	5000	--	--	--	--	0010.	--	--	--	--	--	--	--
R03115.00	03-04-66	5000	0620.	M	2300.	M	0005.	--	--	--	--	--	--	--
R03115.00	04-05-66	5000	2300.	M	2300.	M	0005.	--	--	--	--	--	--	--
R03115.00	05-05-66	5000	2300.	M	6200.	M	0003.	--	--	--	--	00.26M	--	--
R03115.00	06-09-66	5000	2400.HM	2400.HM	0005.	--	--	--	--	--	--	--	--	--
R03115.00	07-14-66	5050	--	--	--	--	0005.	--	--	--	--	--	--	--
R03115.00	09-06-66	5050	--	--	--	--	0005.	--	--	--	--	--	--	--
R04105.00	12-03-61	0000	2400.HM	2400.HM	0015.	--	--	--	--	--	--	--	--	--
R04105.00	10-06-65	5000	0230.HM	0230.HM	0005.	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAH	COL	COL	TAA	MTSCELLANEOUS CONSTITUENTS OF SURFACE WATER	NUTRIENTS										
							DET	NH4	NO2	NO3	NO	PO4	P	POT			
H04105.00	11-04-65	5000	6200. M	0500. HM	0004.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	01-07-66	5000	0620. HM	0620. HM	0025.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	02-07-66	5000	--	--	0030.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	03-04-66	5000	2300. M	2300. M	0005.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	04-05-66	5000	2400. HM	2400. HM	0005.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	05-05-66	5000	0230. HM	0620. HM	0005.	--	--	--	--	--	--	--	--	--	00.69	--	--
H04105.00	06-04-66	5000	0620. HM	1300. HM	0001.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	07-14-66	5050	--	--	0005.	--	--	--	--	--	--	--	--	--	--	--	--
H04105.00	04-06-66	5050	--	--	0004.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	10-06-65	5000	--	--	0004.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	11-04-66	5000	--	--	0002.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	12-06-65	5000	--	--	0010.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	01-10-66	5000	--	--	0025.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	02-07-66	5000	--	--	0005.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	03-04-66	5000	--	--	0004.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	04-05-66	5000	0230. M	1300. M	0001.	--	--	--	--	--	--	--	--	--	--	--	--
H04150.00	05-04-66	5000	0230. M	0620. M	0002.	--	--	--	--	--	--	--	--	--	--	00.24M	--

TABLE D-4 (cont.)
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LAR	COL	COL	FPH	DEF	NH4	NO2	NO3	NUTRIENTS		P	POT
										NO	PO6		
R04150.00	06-23-66	5000	--	--	0001.	--	--	--	--	--	--	--	--
R04150.00	07-14-66	5050	--	--	0001.	--	--	--	--	--	--	--	--
R04150.00	09-07-66	5050	--	--	0001.	--	--	--	--	--	--	--	--
R05125.00	10-05-66	5000	6200. M	6200. M	0003.	--	--	--	--	--	--	--	--
R05125.00	11-02-66	5000	2300. M	6200. M	0001.	--	--	--	--	--	--	--	--
R05125.00	11-30-66	5000	0620. HM	2400. HM	0045.	--	--	--	--	--	--	--	--
R05125.00	01-04-66	5000	0130. HM	0620. HM	0005.	--	--	--	--	--	--	--	--
R05125.00	02-03-66	5000	--	--	0010.	--	--	--	--	--	--	--	--
R05125.00	03-04-66	5000	0230. M	0620. M	0003.	--	--	--	--	--	--	--	--
R05125.00	04-21-66	5000	0230. M	5000. M	0005.	--	--	--	--	--	--	--	--
R05125.00	05-05-66	5000	0620. M	0620. HM	0003.	--	--	--	--	--	00.22M	--	--
R05125.00	06-03-66	5000	6200. M	6200. M	0005.	--	--	--	--	--	--	--	--
R05125.00	07-14-66	5050	--	--	0002.	--	--	--	--	--	--	--	--
R05125.00	09-06-66	5050	--	--	0004.	--	--	--	--	--	--	--	--
R07020.00	10-06-66	5000	0620. HM	0620. HM	0005.	--	--	--	--	--	--	--	--
R07020.00	11-03-66	5000	0230. HM	0230. HM	0005.	--	--	--	--	--	--	--	--
R07020.00	12-01-66	5000	0620. HM	7000. HM	0035.	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LIM	COL	COL	TRM	DEL	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS			POT
							NH4	NO2	NO3	NO	PO4	P		
R07020.00	01-05-66	5000	0230.4M	0230.4M	0065.	--	--	--	--	--	--	--	--	--
R07020.00	02-04-66	5000	2300. M	0230.4M	0057.	--	--	--	--	--	--	--	--	--
R07020.00	03-04-66	5000	0420. M	2300. M	0005.	--	--	--	--	--	--	--	--	--
R07020.00	04-06-66	5000	0200. M	0500.4M	0035.	--	--	--	--	--	--	00.74	--	--
R07020.00	05-04-66	5000	5700. M	0230.4M	0025.	--	--	--	--	--	--	00.56M	--	--
R07020.00	06-06-66	5000	2300. M	6200. M	0025.	--	--	--	--	--	--	00.70M	--	--
R07020.00	07-13-66	5050	--	--	0070.	--	--	--	--	--	--	--	--	--
R07020.00	08-03-66	5000	--	--	0035.	--	--	--	--	--	--	001.0M	--	--
R07020.00	09-07-66	5000	--	--	0015.	--	--	--	--	--	--	00.72M	--	--
R07040.00	10-06-65	5000	6200. M	0230.4M	0005.	--	--	--	--	--	--	--	--	--
R07040.00	11-04-65	5000	2300. M	1300.4M	0004.	--	--	--	--	--	--	--	--	--
R07040.00	12-02-65	5000	0620.4M	2400.4M	0045.	--	--	--	--	--	--	--	--	--
R07040.00	01-07-66	5000	6200. M	0230.4M	0045.	--	--	--	--	--	--	--	--	--
R07040.00	02-07-66	5000	--	--	0030.	--	--	--	--	--	--	--	--	--
R07040.00	03-04-66	5000	6200. M	0230.4M	0010.	--	--	--	--	--	--	--	--	--
R07040.00	04-05-66	5000	0230.4M	0500.4M	0035.	--	--	--	--	--	--	--	--	--
R07040.00	05-05-66	5000	0230.4M	0620.4M	0050.	--	--	--	--	--	--	00.69M	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAH	COL	COI	MISCELLANEOUS TRM	DFT	NUTRIENTS									
							NH4	N02	N03	N0	P06	P	POT			
R07040.00	06-03-65	5000	620.4M	240.4M	0010.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	07-14-65	5050	--	--	0055.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	09-04-66	5050	--	--	0010.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	10-04-67	5000	6200. M	0500.4M	0005.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	11-04-65	5000	2300. M	6200. M	0005.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	12-02-67	5300	6200. M	0230.4M	0045.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	01-07-65	5000	6200. M	0230.4M	0065.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	02-07-65	5000	--	--	0015.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	03-04-66	5000	2300. M	2300. M	0010.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	04-05-66	5000	0140.4M	0230.4M	0040.	--	--	--	--	--	--	--	--	--	--	00.63M
R07040.00	05-05-66	5000	0120.4M	0620.4M	0040.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	06-04-66	5000	6200. M	0230.4M	0015.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	07-14-65	5050	--	--	0040.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	08-04-66	5050	--	--	0035.	--	--	--	--	--	--	--	--	--	--	--
R07040.00	09-04-66	5050	--	--	0025.	--	--	--	--	--	--	--	--	--	--	--
R07200.00	10-05-65	5000	2300. M	6200. M	0005.	--	--	--	--	--	--	--	--	--	--	--
R07200.00	11-02-67	5000	2300. M	6200. M	0010.	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAK	COL	COL	MISCELLANEOUS TAR	UFT	NUTRIENTS									
							NH4	NO2	NO3	NO	POB	P	POT			
H07200.00	11-30-65	5000	0230.HM	0620.HM	0050.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	01-04-66	5000	0230.HM	0230.HM	0105.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	02-03-66	5000	--	--	0015.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	03-04-66	5000	0230. M	2300. M	0010.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	06-21-66	5000	0290.HM	0500.HM	0015.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	05-05-66	5000	0230.HM	0620.HM	0040.	--	--	--	--	--	--	--	--	--	00.79M	--
H07200.00	06-03-66	5000	0230.HM	0620.HM	0010.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	07-13-66	5050	--	--	0040.	--	--	--	--	--	--	--	--	--	--	--
H07200.00	09-06-66	5050	--	--	0010.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	10-15-65	5000	2300. M	0230.HM	0010.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	11-02-65	5000	2300. M	2300. M	0005.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	11-30-65	5000	0230.HM	0620.HM	0045.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	01-10-66	5000	0230.HM	0620.HM	0105.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	02-04-66	5000	--	--	0015.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	03-02-66	5000	0620. M	2300. M	0015.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	04-05-66	5000	0200. M	2400.HM	0025.	--	--	--	--	--	--	--	--	--	--	--
H07250.00	05-05-66	5000	0130.HM	0230.HM	0040.	--	--	--	--	--	--	--	--	--	00.63M	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAB	COL	COL	MISCELLANEOUS TRF	DEF	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS			
							NH4	NO2	NO3	NO	P06	P	POT	
R07250.00	06-09-66	5000	6200. M	0230.4M	0015.	--	--	--	--	--	--	--	--	--
R07250.00	07-14-66	5056	--	--	0025.	--	--	--	--	--	--	--	--	--
R07250.00	08-04-66	5050	--	--	0025.	--	--	--	--	--	--	--	--	--
R07250.00	09-04-66	5050	--	--	0020.	--	--	--	--	--	--	--	--	--
R07375.00	10-05-66	5000	0230. M	0620. M	0030.	--	--	--	--	--	--	--	--	--
R07375.00	11-02-66	5000	0230.4M	0230.4M	0015.	--	--	--	--	--	--	--	--	--
R07375.00	11-30-66	5000	0230.4M	0230.4M	0040.	--	--	--	--	--	--	--	--	--
R07375.00	01-04-66	5000	2100. M	0620.4M	0105.	--	--	--	--	--	--	--	--	--
R07375.00	02-04-66	5000	--	--	0040.	--	--	--	--	--	--	--	--	--
R07375.00	03-04-66	5000	2300. M	6200. M	0010.	--	--	--	--	--	--	--	--	--
R07375.00	04-04-66	5000	2300. M	2300. M	0040.	--	--	--	--	--	--	--	--	--
R07375.00	05-05-66	5000	1300. M	2100. M	0015.	--	--	--	--	--	--	--	00.46M	--
R07375.00	06-04-66	5000	2300. M	2300. M	0015.	--	--	--	--	--	--	--	--	--
R07375.00	07-13-66	5050	--	--	0045.	--	--	--	--	--	--	--	--	--
R07375.00	09-06-66	5050	--	--	0035.	--	--	--	--	--	--	--	--	--
R07710.00	10-11-66	5000	2300. M	0230.4M	0015.	--	--	--	--	--	--	--	--	--
R07710.00	11-04-66	5000	0062. M	0230. M	0010.	--	--	--	--	--	--	--	--	--

STATION NO.	DATE	LAW	COL	COL	TPH	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS			POT	
						DET	NH4	N02	N03	N0	P04	P		
R07710.00	12-13-65	5000	0023.	M 0230.	M 0003.	--	--	--	--	--	--	--	--	--
R07710.00	01-10-66	5000	0230.	M 0620.	M 0010.	--	--	--	--	--	--	--	--	--
R07710.00	02-14-66	5000	0062.	M 0230.	M 0005.	--	--	--	--	--	--	--	--	--
R07710.00	03-14-66	5000	1300.	M 6200.	M 0030.	--	--	--	--	--	--	--	--	--
R07710.00	04-11-66	5000	0620.	M 1300.	M 0040.	--	--	--	--	--	--	--	--	--
R07710.00	05-09-66	5000	0130.	M 0230.	M 0065.	--	--	--	--	--	--	00.30M	--	--
R07710.00	06-13-66	5000	2300.	M 6200.	M 0050.	--	--	--	--	--	--	--	--	--
R07710.00	07-11-66	5050	0620.	M 2300.	M 0045.	--	--	--	--	--	--	--	--	--
R07885.00	01-10-66	5000	0062.	M 0230.	M 0005.	--	--	--	--	--	--	--	--	--
R07885.00	05-09-66	5000	0023.	M 0230.	M 0001.	--	--	--	--	--	--	00.24M	--	--
R07885.00	07-14-66	5050	--	--	0001.	--	--	--	--	--	--	--	--	--
R07885.00	09-12-66	5050	0062.	M 6200.	M --	--	--	--	--	--	--	--	--	--
R31340.50	03-14-66	5000	--	--	0002.	--	--	--	--	--	--	--	--	--
R31340.50	04-11-66	5000	0230.	M 0230.	M 0002.	--	--	--	--	--	--	--	--	--
R31340.50	05-09-66	5000	--	--	0001.	--	--	--	--	--	--	00.00M	--	--
R31340.50	07-11-66	5050	0062.	M 0062.	M 0001.	--	--	--	--	--	--	--	--	--
R31340.50	09-14-66	5050	--	--	0002.	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS							
	DATE	LAH	COL	COL TEMP	DEL	NH4	NO2	NO3	NO	PO6	P	POT
432150.00	01-10-66	5000	0230.	M 0005.	--	--	--	--	--	--	--	--
432150.00	05-03-66	5000	0062.	M 0005.	--	--	--	--	--	--	--	--
432150.00	07-14-66	5050	--	-- 0001.	--	--	--	--	--	--	--	--
441100.00	01-10-65	5000	--	-- 0025.	--	--	--	--	--	--	--	--
441100.00	05-03-66	5000	0062.	M 0001.	--	--	--	--	--	--	0.000M	--
441100.00	07-14-66	5050	--	-- 0001.	--	--	--	--	--	--	--	--
441245.50	03-15-66	5000	--	-- 0001.	--	--	--	--	--	--	--	--
441245.50	04-11-66	5000	0230.	M 0004.	--	--	--	--	--	--	--	--
441245.50	05-09-66	5000	--	-- 0001.	--	--	--	--	--	--	0.000M	--
441245.50	07-14-66	5050	--	-- 0001.	--	--	--	--	--	--	--	--
441245.50	08-14-66	5050	--	-- 0002.	--	--	--	--	--	--	--	--
451200.00	01-10-66	5000	0620.	M 0010.	--	--	--	--	--	--	--	--
451200.00	05-03-66	5000	0200.	M 0001.	--	--	--	--	--	--	000.00M	--
451200.00	07-14-66	5050	--	-- 0001.	--	--	--	--	--	--	--	--
451400.00	03-15-66	5000	--	-- 0001.	--	--	--	--	--	--	--	--
451400.00	04-11-66	5000	0230.	M 0001.	--	--	--	--	--	--	--	--
451400.00	05-13-66	5000	--	-- 0001.	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAB	COL	COL	TR#	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER						P	POT
						DET	NH4	NO2	NO3	NO	PO6		
A51400.00	07-14-66	5050	--	--	0001.	--	--	--	--	--	--	--	--
A51400.00	09-14-66	5050	--	--	0001.	--	--	--	--	--	--	--	--
A64200.00	05-14-66	5000	--	--	0001.	--	--	--	--	--	00.07M	--	--
A67150.00	05-14-66	5000	--	--	0005.	--	--	--	--	--	00.08M	--	--
A95925.00	10-05-65	5000	2300.	M	0015.	--	--	--	--	--	--	--	--
A95925.00	11-02-65	5000	0950.	M	0005.	--	--	--	--	--	--	--	--
A95925.00	12-01-65	5000	5000.	M	6200.	M	0015.	--	--	--	--	--	--
A95925.00	02-04-66	5000	2300.	M	0230.	HM	0010.	--	--	--	--	--	--
A95925.00	03-04-66	5000	6200.	M	0620.	HM	0010.	--	--	--	--	--	--
A95925.00	04-04-66	5000	0062.	M	2300.	M	0025.	--	--	--	--	--	--
A95925.00	05-04-66	5000	0620.	M	6200.	M	0040.	--	--	--	00.23M	--	--
A95925.00	06-04-66	5000	0620.	M	0620.	M	0035.	--	--	--	--	--	--
A95925.00	07-14-66	5050	--	--	0045.	--	--	--	--	--	--	--	--
A95925.00	04-04-66	5050	--	--	0025.	--	--	--	--	--	--	--	--
A95925.00	09-07-66	5050	--	--	0035.	--	--	--	--	--	--	--	--
C01140.00	10-11-65	5000	0420.	M	6200.	M	0001.	--	--	--	--	--	--
C01140.00	11-04-66	5000	0062.	M	0230.	M	0001.	--	--	--	--	--	--

TABLE D-4 (cont.)
 MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LHR	COL	COL	TRH	DET	NH4	NO2	NO3	NUTRIENTS			POT
										NO	PO6	P	
C01140.00	12-13-65	5000	0620. M	2300. M	0004.	--	--	--	--	--	--	--	--
C01140.00	01-10-66	5000	0230. M	0620. M	0002.	--	--	--	--	--	--	--	--
C01140.00	02-14-66	5000	0620. M	2300. M	0070.	--	--	--	--	--	--	--	--
C01140.00	03-14-66	5000	0500. M	0620. M	0002.	--	--	--	--	--	--	--	--
C01140.00	04-12-66	5000	--	--	0002.	--	--	--	--	--	--	--	--
C01140.00	05-04-66	5000	6200. M	6200. M	0001.	--	--	--	--	--	00.08M	--	--
C01140.00	06-13-66	5000	2300. M	6200. M	0001.	--	--	--	--	--	--	--	--
C01140.00	07-11-66	5050	0620. M	6200. M	0004.	--	--	--	--	--	--	--	--
C01140.00	08-04-66	5050	2300. M	6200. M	--	--	--	--	--	--	--	--	--
C01140.00	09-12-66	5050	0230+M	0230.4M	--	--	--	--	--	--	--	--	--
C02185.00	10-07-65	5000	--	--	0004.	--	--	--	--	--	--	--	--
C02185.00	11-04-65	5000	0016. M	--	0004.	--	--	--	--	--	--	--	--
C02185.00	12-07-65	5000	--	--	0001.	--	--	--	--	--	--	--	--
C02185.00	01-03-66	5000	0016. M	--	0005.	--	--	--	--	--	--	--	--
C02185.00	02-17-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--
C02185.00	03-07-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--
C02185.00	04-04-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--

STATION NO. 4 (CONT.)

STATION NO.	DATE	LAR	CUL	COL	TRH	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER						POT	
						UET	NH4	NO2	NO3	NUTRIENTS NO	P06		P
C021R5.00	05-09-66	5000	--	--	0001.	--	--	--	--	--	--	00.01M	--
C021R5.00	06-07-66	5000	--	--	0001.	--	--	--	--	--	--	--	--
C021R5.00	07-11-66	5000	0016. M	--	0002.	--	--	--	--	--	--	--	--
C021R5.00	08-04-66	5050	0016. M	0016. M	0011.	--	--	--	--	--	--	--	--
C021R5.00	09-14-66	5050	0016. M	--	0001.	--	--	--	--	--	--	--	--
C031R5.00	10-08-65	5000	--	--	0001.	--	--	--	--	--	--	--	--
C031R5.00	11-15-65	5000	--	--	0001.	--	--	--	--	--	--	--	--
C031R5.00	12-06-65	5000	--	--	0004.	--	--	--	--	--	--	--	--
C031R5.00	01-03-66	5000	0016. M	--	0005.	--	--	--	--	--	--	--	--
C031R5.00	02-01-66	5000	--	--	0010.	--	--	--	--	--	--	--	--
C031R5.00	03-09-66	5000	0016. M	0016. M	0003.	--	--	--	--	--	--	--	--
C031R5.00	04-04-66	5000	0016. M	0016. M	0001.	--	--	--	--	--	--	--	--
C031R5.00	05-09-66	5000	--	--	0002.	--	--	--	--	--	--	00.12M	--
C031R5.00	06-06-66	5000	--	--	0002.	--	--	--	--	--	--	--	--
C031R5.00	07-05-66	5000	005.1 M	--	0001.	--	--	--	--	--	--	--	--
C031R5.00	08-02-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--
C031R5.00	09-07-65	5000	0016. M	0016. M	0002.	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LAH	COL	COL	TRH	DEI	NH4	NO2	NO3	NUTRIENTS				
										NO	PO6	P		
C05150.00	10-04-65	5000	0240.	M	0240.	M	0001.	--	--	--	--	--	--	--
C05150.00	11-02-65	5000	0023.	M	0240.	M	0001.	--	--	--	--	--	--	--
C05150.00	12-06-65	5000	0023.	M	0062.	M	0001.	--	--	--	--	--	--	--
C05150.00	01-06-66	5000	0023.	M	0062.	M	0003.	--	--	--	--	--	--	--
C05150.00	02-01-66	5000	0006.	M	0062.	M	0001.	--	--	--	--	--	--	--
C05150.00	03-12-66	5000	0700.	M	0700.	M	0002.	--	--	--	--	--	--	--
C05150.00	04-04-66	5000	0006.	M	0062.	M	0001.	--	--	--	--	--	--	--
C05150.00	05-05-66	5000	0062.	M	0240.	M	0004.	--	--	--	--	--	00.09M	--
C05150.00	06-07-66	5000	0062.	M	0700.	M	0004.	--	--	--	--	--	--	--
C05150.00	07-05-66	5000	0240.	M	0240.	M	0001.	--	--	--	--	--	--	--
C05150.00	08-03-66	5050	0240.	M	2400.	M	0002.	--	--	--	--	--	--	--
C05150.00	09-07-66	5050	0062.	M	0240.	M	0003.	--	--	--	--	--	--	--
C11140.00	10-11-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11140.00	11-15-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11140.00	12-13-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11140.00	01-24-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11140.00	02-14-66	5000	--	--	0002.	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LAT	COL	COL	TR4	DET	NH4	NO2	NO3	NUTRIENTS		
										NO	PO6	P
C11140.00	03-14-65	5000	--	--	0001.	--	--	--	--	--	--	--
C11140.00	04-11-65	5000	--	--	0001.	--	--	--	--	--	--	--
C11140.00	05-07-65	5000	0420.	M	0001.	--	--	--	--	--	0.000M	--
C11140.00	06-13-65	5000	0023.	M	0001.	--	--	--	--	--	--	--
C11140.00	07-11-65	5000	0500.	M	0001.	--	--	--	--	--	--	--
C11140.00	08-09-65	5000	0023.	M	0002.	--	--	--	--	--	--	--
C11140.00	08-12-65	5000	0230.	M	0002.	--	--	--	--	--	--	--
C11320.00	10-11-65	5000	0420.	M	0001.	--	--	--	--	--	--	--
C11320.00	11-15-65	5000	--	--	0015.	--	--	--	--	--	--	--
C11320.00	12-13-65	5000	0230.	M	0002.	--	--	--	--	--	--	--
C11320.00	01-24-66	5000	--	--	0001.	--	--	--	--	--	--	--
C11320.00	02-14-66	5000	0230.	M	0002.	--	--	--	--	--	--	--
C11320.00	03-14-66	5000	0420.	M	0002.	--	--	--	--	--	--	--
C11320.00	04-11-66	5000	0230.	M	0004.	--	--	--	--	--	--	--
C11320.00	05-09-66	5000	0420.	M	0001.	--	--	--	--	--	00.003M	--
C11320.00	06-13-66	5000	--	--	0001.	--	--	--	--	--	--	--
C11320.00	07-11-66	5000	0062.	M	0001.	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAR	COL	COL	TR4	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER				NUTRIENTS			POT	
						DET	NH4	NO2	NO3	NO	PO4	P		
C11320.00	08-04-64	5000	0062. M	0230. M	0001.	--	--	--	--	--	--	--	--	--
C11320.00	09-12-64	5000	0062. M	0230. M	--	--	--	--	--	--	--	--	--	--
C11460.00	10-11-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11460.00	11-15-65	5000	--	--	0005.	--	--	--	--	--	--	--	--	--
C11460.00	12-13-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11460.00	01-24-66	5000	--	--	0000.	--	--	--	--	--	--	--	--	--
C11460.00	02-14-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11460.00	03-14-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11460.00	04-11-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C11460.00	05-09-66	5000	0620. M	2300. M	0001.	--	--	--	--	--	--	00.00M	--	--
C11460.00	06-13-66	5000	0023. M	0620. M	0001.	--	--	--	--	--	--	--	--	--
C11460.00	04-04-66	5050	0062. M	0230. M	0001.	--	--	--	--	--	--	--	--	--
C11460.00	09-12-66	5050	0062. M	0230. M	0002.	--	--	--	--	--	--	--	--	--
C21250.00	01-03-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--	--
C21250.00	02-07-66	5000	0016. M	--	0005.	--	--	--	--	--	--	--	--	--
C21250.00	03-07-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--	--
C21250.00	04-04-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAB	COL	COL	COL	TRM	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER										
							DET	NH4	NO2	NO3	NO	PO4	P	POT			
C21250.00	05-09-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	06-07-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	07-11-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	08-04-66	5050	0016. M	0014. M	0002.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	09-19-66	5050	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	10-07-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	11-04-66	5000	0016. M	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C21250.00	12-07-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	10-04-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	11-14-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	12-04-65	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	01-03-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	02-01-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	03-04-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	04-04-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--
C31150.00	05-03-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	00.03M	--
C31150.00	06-04-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (cont.)

STATION NO.	DATE	LAT	COL.	COL	MISCELLANEOUS CONSTITUENTS OF SURFACE WATER	NUTRIENTS								
						DET	NH4	NO2	NO3	NO	P06	P	POT	
C31150.00	07-05-66	5000	--	--	0001.	--	--	--	--	--	--	--	--	--
C31150.00	04-02-66	5050	--	--	0001.	--	--	--	--	--	--	--	--	--
C31150.00	04-07-66	5050	--	--	0003.	--	--	--	--	--	--	--	--	--
C51350.00	01-10-66	5000	--	--	0004.	--	--	--	--	--	--	--	--	--
C51350.00	05-04-66	5000	--	--	0001.	--	--	--	--	--	--	00.10M	--	--
C51350.00	07-26-66	5050	--	--	0002.	--	--	--	--	--	--	--	--	--
C51500.00	05-05-66	5000	--	--	0001.	--	--	--	--	--	--	00.00M	--	--
C51500.00	07-26-66	5050	--	--	0001.	--	--	--	--	--	--	--	--	--

TABLE D-5
WATER TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1966	09925.4	Delta-Mendota Canal near Trent

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
2									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	2
3									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	3
4									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4
5									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	5
6									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	6
7									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	7
8									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	8
9									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	9
10									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	10
11									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	11
12									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	12
13									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	13
14									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	14
15									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	15
16									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	16
17									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	17
18									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	18
19									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	19
20									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	20
21									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	21
22									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	22
23									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	23
24									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	24
25									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	25
26									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	26
27									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	27
28									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	28
29									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	29
30									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	30
31									NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	31
AVG.									51	50	50	51	51	52	53	54	55	56	57	58	59	60	60	61	AVG.
MAX									51	51	52	53	53	54	55	56	57	58	59	60	60	61	61	62	MAX
MIN.									47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	MIN

NR = Record

YEARLY EXTREMES

MAXIMUM				MINIMUM				
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY

LOCATION			MAXIMUM		MINIMUM		PERIOD OF RECORD	
LATITUDE	LONGITUDE	14 SEC. T. & R B. & M.	TEMPERATURE OF RECORD	DATE	TEMPERATURE OF RECORD	DATE	FRM	TO
3747.0	1235.4	NR 1 23						

TABLE D-5 (Cont.)
WATER TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1966	B07010.00	San Joaquin River at Maze Road Bridge

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.		
1	NR	NR																							1	
2	NR	NR																								2
3	NR	NR																								3
4	NR	NR																								4
5	NR	NR																								5
6	NR	NR																								6
7	NR	NR																								7
8	NR	NR																								8
9	NR	NR																								9
10	70	63																								10
11	64	66																								11
12	67	66																								12
13	65	61																								13
14	61	59																								14
15	61	59																								15
16	60	57																								16
17	61	57																								17
18	62	57																								18
19	62	59																								19
20	63	61																								20
21	61	59																								21
22	61	59																								22
23	61	59																								23
24	61	59																								24
25	61	59																								25
26	61	59																								26
27	61	59																								27
28	61	59																								28
29	61	59																								29
30	61	59																								30
31	61	59																								31
AVG	60	60																								AVG
MAX	70																									MAX
MIN	57																									MIN

NR - No Record

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY
77	3	1	57	10	16

LOCATION			MAXIMUM TEMPERATURE OF RECRD		MINIMUM TEMPERATURE OF RECRD		PERIOD OF RECORD	
LATITUDE	LONGITUDE	1 4 SEC T & R B & M	TEMPERATURE	DATE	TEMPERATURE	DATE	FROM	TO
37° 14'	121° 17'	RM 30 30 7E	77	10-31-66	57	10-16-66	1-31-66	10-31-66

TABLE D-5 (Cont.)
WATER TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1967	B-7027, CV	S. St. Joaquin River near Verdugo, Telford

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
1	NR	NR	NR	NR	NR	NR	47	38	41	34	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
2							47	38	41	34															2
3							47	38	41	34															3
4							47	38	41	34															4
5							47	38	41	34															5
6							47	38	41	34															6
7							47	38	41	34															7
8							47	38	41	34															8
9							47	38	41	34															9
10							47	38	41	34															10
11							47	38	41	34															11
12							47	38	41	34															12
13							47	38	41	34															13
14							47	38	41	34															14
15							47	38	41	34															15
16							47	38	41	34															16
17							47	38	41	34															17
18							47	38	41	34															18
19							47	38	41	34															19
20							47	38	41	34															20
21							47	38	41	34															21
22							47	38	41	34															22
23							47	38	41	34															23
24							47	38	41	34															24
25							47	38	41	34															25
26							47	38	41	34															26
27							47	38	41	34															27
28							47	38	41	34															28
29							47	38	41	34															29
30							51	43																	30
31							50	43																	31
AVG.							47	38	41	34															AVG.
MAX.							51																		MAX.
MIN.							34		33																MIN.

NR No Record

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY

LOCATION			MAXIMUM		MINIMUM		PERIOD OF RECORD	
LATITUDE	LONGITUDE	1 4 SEC T & R B & M	TEMPERATURE OF RECORD	DATE	TEMPERATURE OF RECORD	DATE	FROM	TO
34° 45' N	121° 15' W	NE 13 39 4E		1967	34	1967		

TABLE D-5 (Cont.)
WATER TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1966	807020.00	San Joaquin River near Vernalis, Right Bank

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
1	NR	NR	NR	NR	NR	NR	46	44	43	43	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
2							45	44	44	42															2
3							44	44	43	42															3
4							44	43	42	42															4
5							45	43	43	42															5
6								47	45	43	43														6
7							48	47	43	40															7
8							49	48	42	41															8
9							47	46	48	42															9
10							49	48	48	46															10
11							49	49	47	46															11
12							48	47	47	46															12
13							47	46	47	45															13
14							47	46	47	45															14
15							48	47	48	46															15
16							47	46	49	47															16
17							47	45	49	47															17
18							46	45	50	47															18
19							46	45	51	49															19
20							45	45	51	50															20
21							45	45	51	49															21
22							46	45	53	51															22
23							46	46	54	52															23
24							49	46	54	53															24
25							49	49	53	51															25
26							49	49	52	50															26
27							49	49	52	50															27
28							49	49	52	50															28
29							49	49	52	50															29
30							49	47																	30
31							47	43																	31
AVG.							46	47	46																AVG.
MAX. MIN							50 43		54 40																MAX. MIN

NR No Record

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO.	DAY	TEMPERATURE	MO.	DAY
54	2	23	40	7	7

LOCATION			MAXIMUM TEMPERATURE OF RECORD		MINIMUM TEMPERATURE OF RECORD		PERIOD OF RECORD	
LATITUDE	LONGITUDE	1 4 SEC. T. & R. B. & M.	TEMPERATURE	DATE	TEMPERATURE	DATE	FROM	TO
3740.5	2115.9	NE 13 35 6E	54	2-23-66	40	2-7-66	1-1-66	2-28-66

TABLE D-6

AIR TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1961	B-107,06	Delta-Mendota Canal near Trees

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
2																									2
3																									3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31
AVG.																									AVG.
MAX.																									MAX.
MIN.																									MIN.

NR = No Record

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY
104	J	13	36	D	24

LOCATION			MAXIMUM		MINIMUM		PERIOD OF RECORD	
LATITUDE	LONGITUDE	14 SEC. T. & R. B & M	TEMPERATURE OF RECORD		TEMPERATURE OF RECORD		FROM	TO
			DATE	DATE				
37°47.0'	121°31.1'	NE 1/4 SEC 3E	104	6-13-66	36	1-24-66	1921-66	1931-66

TABLE D-6 (Cont.)
AIR TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1966	B07141.00	San Joaquin River at Maze Road Bridge

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY		JUNE		JULY		AUG.		SEPT.		DAY
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1
2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	2
3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	3
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	5
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	6
7	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	7
8	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	8
9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	9
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	10
11	79	45																							11
12	82	47																							12
13	69	48																							13
14	71	44																							14
15	74	35																							15
16	78	40																							16
17	82	38																							17
18	74	36																							18
19	83	30																							19
20	87	51																							20
21	72	45																							21
22	77	35																							22
23	72	44																							23
24	71	42																							24
25	77	47																							25
26	72	42																							26
27	77	41																							27
28	75	30																							28
29	72	40																							29
30	74	30																							30
31	73	40																							31
AVG.	70	43																							AVG.
MAX.	88																								MAX.
MIN.	35																								MIN.

No Record

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY
	10	21	35	1	15, 20

LOCATION			MAXIMUM TEMPERATURE OF RECORD		MINIMUM TEMPERATURE OF RECORD		PERIOD OF RECORD	
LATITUDE	LONGITUDE	1 4 SEC. T. & R B & M	TEMPERATURE	DATE	TEMPERATURE	DATE	FROM	TO
37° 14'	124° 37'	SW 30 38 7E	87	10-21-66	35	1-15-20	10-1-66	10-31-66

TABLE D-6 (Cont.)

AIR TEMPERATURES
DAILY MAXIMUM and MINIMUM
 (IN DEGREES FAHRENHEIT)

WATER YEAR	STATION NO.	STATION NAME
1950-51	100	San Francisco, Vallejo

DAY	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.		APR.		MAY.		JUNE.		JULY.		AUG.		SEPT.		DAY
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
1	NR	NR	NR	NR	NR	NR	30	30	47	37	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1	
2							30	30	47	37														2	
3							30	30	47	37														3	
4							30	30	47	37														4	
5							30	30	47	37														5	
6							30	30	47	37														6	
7							30	30	47	37														7	
8							30	30	47	37														8	
9							30	30	47	37														9	
10							30	30	47	37														10	
11							30	30	47	37														11	
12							30	30	47	37														12	
13							30	30	47	37														13	
14							30	30	47	37														14	
15							30	30	47	37														15	
16							30	30	47	37														16	
17							30	30	47	37														17	
18							30	30	47	37														18	
19							30	30	47	37														19	
20							30	30	47	37														20	
21							30	30	47	37														21	
22							30	30	47	37														22	
23							30	30	47	37														23	
24							30	30	47	37														24	
25							30	30	47	37														25	
26							30	30	47	37														26	
27							30	30	47	37														27	
28							30	30	47	37														28	
29							30	30	47	37														29	
30							30	30	47	37														30	
31							30	30	47	37														31	
AVG																								AVG	
MAX							71		6															MAX	
MIN							30		30															MIN	

YEARLY EXTREMES

MAXIMUM			MINIMUM		
TEMPERATURE	MO	DAY	TEMPERATURE	MO	DAY

LOCATION			MAXIMUM		MINIMUM		PERIOD OF RECORD	
LATITUDE	LONGITUDE	14 SEC T & R B & M	TEMPERATURE OF RECORD	DATE	TEMPERATURE OF RECORD	DATE	FROM	TO



APPENDIX E
GROUND WATER QUALITY



INTRODUCTION

The ground water quality program in the San Joaquin District involved the following activities during the 1966 water year (October 1, 1965 through September 30, 1966):

1. A concentrated study of ground water quality conditions in Stanislaus County was continued,
2. A concentrated study of ground water quality conditions in Madera County in cooperation with the U. S. Geological Survey was continued,
3. A concentrated study of ground water quality conditions in a portion of northern Kern County was conducted in cooperation with the Kern County Water Agency, and
4. A study of ground water quality conditions in western Fresno County was conducted in cooperation with the U. S. Bureau of Reclamation.

During the 1966 water year 1,050 wells were sampled and the analyses of these samples are reported in this appendix.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 169.

Table E-1 contains a list of "Wells Indicating Significant Deviation in Quality from Surrounding Area". Wells reported in this table in Bulletin 130-65 as containing high concentrations of nitrates are not reported this year since this is no longer an individual well problem but is found to be widespread throughout the valley. Investigation of a problem of this areal magnitude is beyond the scope of this program.



TABLE E-1
 QUALITY OF GROUND WATERS IN CALIFORNIA
 SAN JOAQUIN DISTRICT
 WELLS INDICATING SIGNIFICANT DEVIATION IN QUALITY
 FROM SURROUNDING AREA

STATE WELL NUMBER WELL USE	DEVIATION	STATUS
6S/12E-8D1-M Domestic	EC ^{a/} = 125 mu ^{b/}	Depth 120. EC varies with depth. Condition being investigated.
6S/12E-8D2-M Domestic	EC = 423 mu	Depth 60. EC varies with depth. Condition being investigated.
7S/10E-7D1-M Domestic	EC = 996 mu in 1965 EC = 482 mu in 1961	Cause being investigated.
10S/15E-31A1-M Irrigation	EC increasing from 353 mu in 1957 to 723 mu in 1965	Cause being investigated.
11S/14E-5B1-M Irrigation	EC increasing from 267 mu in 1958 to 778 mu in 1966.	Cause being investigated.
13S/15E-6D1-M	F ^{c/} = 0.9 mg/l	Areal extent being investigated.
24S/22E-35N1-M Irrigation and Stock	Arsenic = 0.25 mg/l	Cause and areal extent being investigated.
29S/29E-34N1-M Industrial Irrigation Domestic	Arsenic = 0.22 mg/l	Cause and areal extent being investigated.

a/ EC = Electrical Conductivity in micromhos at 25°C.
 b/ mu = Micromhos
 c/ F = Fluoride

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

This table presents a tabulation of data resulting from the collection and analysis of ground water by various laboratories and agencies cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

- 5000 = U. S. Geological Survey Laboratory
- 5050 = State Department of Water Resources
- 5055 = State Water Quality Control Board
- 5060 = State Department of Public Health
- 5070 = State Division of Forestry
- 5121 = Kern County Water Agency
- 5203 = City of Modesto
- 5207 = City of Firebaugh
- 5521 = Modesto Irrigation District
- 5702 = Individual Property Owner
- 5703 = Valley Waste Disposal Company
- 5802 = Twining Laboratory
- 5803 = Hornkohl Laboratory
- 5806 = B. C. Laboratory

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATION WELL NUMBER DATE TIME	TEMP F/D	PH F/D	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
			Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SI0 ₂	TDS	TH	NCH	
01N/15E-09F01 4	--	8.1	4.6	32	21	24	1.1	--	234	7.9	4.8	2.2	--	0.0	--	255	166	
05/06/66 5050			1.60	1.73	1.04	.03			3.44	.16	.25	.04				212	0	
1400 5050			36	39	24	1			90	4	6	1						
02S/04E-16A01 4	--	8.0	2730	134	75	315	--	0.0	295	--	528	--	--	--	--	--	654	412
03/16/66 5050			2470	6.89	6.19	13.75			6.84		14.89							
1100 5050																		
02S/04E-27J02 5	--	6.4	2420	55	62	384	--	4.0	200	--	344	--	--	--	--	420	250	
03/15/66 5050			2280	3.24	5.15	16.64		.13	3.28		9.70							
1300 5050																		
02S/04E-28A01 4	--	8.1	2600	62	72	393	--	0.0	243	--	235	--	--	--	--	454	255	
03/16/66 5050			2240	3.09	5.98	17.10			3.99		6.63							
1130 5050																		
02S/07E-12A01 4	--	8.3	239	21	6.0	14	3.6	0.0	103	3.0	12	11	--	0.1	--	184	77	
01/06/66 5050			440	1.05	.49	.70	.09		1.69	.04	.34	.18				123	0	
1145 5050			45	21	30	4			74	3	15	8						
02S/07E-12A02 4	--	8.0	492	46	22	20	2.5	0.0	199	41	3.6	38	--	0.1	--	320	204	
01/06/66 5050			2330	1.81	.87	.66	.6		3.26	.45	1.0	.61				271	41	
1134 5050			44	36	17	1			64	14	2	13						
02S/07E-33A01 4	5.4 F	8.4	303	35	11	11	2.4	5.0	142	6.2	6.8	16	--	.00	--	231	134	
03/19/66 5050			321	1.75	.90	.44	.06	.17	2.33	.14	.19	.26				163	9	
0830 5050			55	28	14	2		.6	.75	5	6	8						
02S/08E-25A01 4	4.4 F	8.6	300	26	8.8	27	4.4	8.0	135	8.1	5.3	16	--	0.0	--	235	101	
02/04/66 5050			313	1.30	.72	1.17	.11	.27	2.21	.17	.19	.26				171	0	
5521			39	22	32	3		.9	.72	6	6	8						
02S/08E-27A01 4	6.2 F	8.6	324	26	8.0	24	5.0	10	133	4.9	18	7.0	--	0.1	--	266	98	
02/09/66 5050			339	1.30	.66	1.24	.13	.33	2.14	.10	.51	.11				172	0	
5521			39	20	37	4		1.0	.67	3	16	3						
02S/04E-31A01 4	6.6 F	8.5	460	47	47	82	6.5	9.0	424	25	29	39	--	.00	--	539	282	
03/09/66 5050			475	2.35	3.86	3.57	.17	.30	6.95	.54	.82	.67				493	0	
0920 5050			24	39	34	2		.3	.75	6	9	7						
02S/04E-33E 1 4	6.0 F	8.0	466	44	14	25	--	0.0	227	--	18	--	--	--	--	--	180	0
02/06/66 5050			459	2.47	1.20	1.00			3.72		.51							
5521																		
02S/00E-24A01 4	6.0 F	8.2	319	37	15	19	--	0.0	134	--	3.9	--	--	--	--	--	138	28
06/18/66 5050			323	1.50	1.26	.83			2.20		.11							
5521																		

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. & DATE SAMPLED	TEMP	PH	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				TH																				
			Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	IOS	SUM																					
			FLD	FLD	LAB	EC	LAB	FLD	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	FLD	LAB	
025/095-318 (1) 08/08/66 5050	7.6	8.3	179	187	15	4.5	14	--	0.0	89	--	4.8	--	4.8	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	0	
025/095-366 (1) 08/08/66 5050	6.4	7.7	262	263	11	16	16	2.7	0.0	132	3.6	5.2	7.8	0.0	0.0	--	0.0	--	--	200	94	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/101-104 (1) 07/14/66 5050	6.4	7.9	212	208	21	7.2	12	3.1	0.0	105	5.1	5.7	11	0.1	0.0	--	0.0	--	--	154	82	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/101-150 (1) 07/13/66 5050	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
025/101-150 (1) 03/09/66 5050	6.4	8.5	415	410	39	15	24	--	6.0	206	--	14	15	--	0.0	--	0.0	--	--	160	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/101-240 (1) 03/09/66 5050	7	8.5	213	227	20	5.1	13	4.9	6.0	84	0.2	14	6.7	--	0.0	--	0.0	--	--	177	71	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/111-020 (1) 03/09/66 5050	5.7	8.2	255	255	26	11	10	4.0	0.0	139	5.1	4.3	16	--	0.0	--	0.0	--	--	192	111	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
025/111-140 (1) 03/09/66 5050	6.4	8.3	149	164	14	7.8	6.4	1.7	0.0	83	1.8	3.0	5.6	--	0.0	--	0.0	--	--	113	67	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/111-210 (1) 03/09/66 5050	6.4	8.5	142	203	15	8.4	11	2.5	3.0	92	1.6	7.0	5.8	--	0.0	--	0.0	--	--	147	72	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/111-310 (1) 03/09/66 5050	6.4	7.4	426	426	1.45	99	1.61	0.6	2.0	2.56	2.5	7.9	3.4	--	0.0	--	0.0	--	--	274	124	224	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
025/056-030 (1) 03/16/66 5050	--	8.3	1000	925	3.9	1.86	3.44	--	0.0	1.35	--	1.44	--	--	0.0	--	0.0	--	--	290	180	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATION WELL NUMBER DATE TIME	TEMP FLO	PH FLO	FC FLO	Mg	Ca	Na	K	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS					
								CO ₂	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	SUM	TH
035/045-14W1 03/14/66 5050	--	8.2	1440	116	33	15.0	--	0.0	201	--	208	--	--	--	--	427	262
			1140	579	2.75	6.53		3.30		5.87							
035/045-27W1 03/14/66 5050	--	8.4	1360	114	36	10.3	--	8.0	233	--	204	--	--	--	--	443	239
			1235	549	2.97	4.44		3.82		5.75							
035/045-24W1 03/16/66 5050	--	8.3	1020	85	25	7.4	--	0.0	154	--	127	--	--	--	--	315	189
			913	424	2.06	3.22		2.53		3.58							
035/075-13W1 09/08/66 5051	65 F	8.2	621	65	24	42	4.0	0.0	290	2.0	24	2.9	0.0	--	--	382	212
			640	225	1.97	1.83	1.0	2	4.76	6.2	6.8	7.6	2.9	7	11	330	0
035/075-13W1 08/10/66 5051	65.5 F	8.8	620	51	21	61	--	24	292	--	21	--	--	--	--	215	0
			697	254	1.75	2.65		4.0	4.76	5.9							
035/075-23W1 08/10/66 5050	50 F	8.4	567	49	17	35	3.3	4.0	254	1.3	27	1.8	--	--	--	336	191
			571	245	1.40	1.52	0.8	1.3	4.17	2.7	7.6	2.9	5			291	0
035/075-24W1 08/10/66 5050	45 F	8.3	569	41	16	46	--	0.0	260	--	23	--	--	--	--	172	0
			557	205	1.39	2.00			4.26								
035/075-24W1 08/10/66 5051	45 F	8.8	645	43	18	74	--	21	313	--	17	--	--	--	--	182	0
			468	215	1.49	3.22		7.0	5.13	4.8							
035/075-25W1 08/10/66 5051	47 F	8.6	524	42	13	52	--	10	192	--	47	--	--	--	--	161	0
			516	210	1.12	2.26		3.3	3.15	1.33							
035/075-34W1 08/10/66 5050	47 F	8.6	1350	66	30	182	2.0	1.8	503	5.8	138	1.3	--	--	--	811	290
			1245	329	2.47	7.92	0.5	4	8.25	1.21	3.89	2.1	1			754	0
035/045-24W1 08/08/66 5051	63 F	8.5	412	40	11	29	2.8	4.0	190	1.9	4.1	1.8	--	--	--	266	146
			235	200	9.0	1.26	0.7	1.3	3.12	4.0	2.3	2.9	7			225	0
035/045-27W1 08/09/66 5050	64 F	8.2	654	53	26	50	--	0.0	329	--	19	--	--	--	--	240	0
			699	264	2.15	2.14			5.40								

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP LAB FLO	PH LAB FLO	EC LAB FLO	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	TDS SUM	TH NCH		
03S/08F-04L01 M 08/09/66 5050 5521	68 F	8.4	447 444	41 2*05	14 1.19	33 1.44	--	3.0 .10	209 3.43	--	16 .45	--	--	--	--	--	162 0		
03S/08E-04M01 M 08/08/66 5050 5521	65 F	8.2	613 638	50 2*50	23 1.90	46 2.00	--	0.0 4.90	299 4.90	--	23 .65	--	--	--	--	--	220 0		
03S/08E-06N01 M 08/09/66 5050 5521	65 F	8.9	691 697	61 3*04	16 1.38	54 2.35	--	27 .90	309 5.07	--	27 .76	--	--	--	--	--	221 0		
03S/08E-07O01 M 08/09/66 5050 5521	64 F	8.7	930 919	66 3*29	26 2.18	79 3.44	--	19 .63	330 5.41	--	47 1.33	--	--	--	--	--	274 0		
03S/08E-08O01 M 08/09/66 5050 5521	64.5F	8.3	740 760	70 3*49	33 2.73	47 2.04	--	0.0 6.35	387 6.35	--	31 .87	--	--	--	--	--	311 0		
03S/08E-09C01 M 08/08/66 5050 5521	66.5F	8.4	424 434	40 2*00	18 1.50	23 1.00	--	5.0 .17	206 3.38	--	10 .28	--	--	--	--	--	175 0		
03S/08E-09P01 M 08/09/66 5050 5521	64.5F	8.1	802 775	78 3*89	29 2.43	56 2.44	--	0.0 6.74	411 6.74	--	31 .87	--	--	--	--	--	316 0		
03S/08E-11J01 M 08/09/66 5050 5521	65 F	8.7	584 648	38 1*90	25 2.12	48 2.09	--	13 .43	244 4.00	--	15 .42	--	--	--	--	--	201 0		
03S/08E-11N01 M 08/09/66 5050 5521	65 F	8.2	632 641	53 2*64	24 2.01	42 1.83	--	0.0 4.26	260 4.26	--	46 1.30	--	--	--	--	--	233 20		
03S/08E-12H01 M 08/10/66 5050 5521	66 F	8.3	520 517	51 2*54	18 1.55	32 1.39	--	0.0 4.02	245 4.02	--	11 .31	--	--	--	--	--	205 4		
03S/08E-13F01 M 08/09/66 5050 5521	67 F	8.5	401 490	37 1*85	14 1.15	20 .87	1.9 0.5	7.0 .23	149 2.44	17 3.5	12 .34	31 .50	--	0.1	--	--	280 213		
03S/08E-14A01 M 08/09/66 5050 5521	65 F	8.2	590 592	52 2*59	23 1.92	41 1.78	--	0.0 4.94	240 4.94	--	20 .56	--	--	--	--	--	226 29		

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	PH LAB PLD	TEMP	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
			EC LAB PLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	S102	TDS	TH	NCH
03S/08E-14M01 M 08/09/66 5050 5521	8.3	66 F	546	51	22	31	--	0.0	213	--	21	--	--	--	--	--	218	
			542	2.54	1.81	1.35				3.49	.59							44
03S/08E-15001 M 08/09/66 5050 5521	8.3	66 F	511	57	21	22	--	0.0	246	--	14	--	--	--	--	--	231	
			512	2.84	1.77	.96				4.03	.39							30
03S/08E-16A01 M 08/09/66 5050 5521	8.2	65 F	694	51	24	57	--	0.0	309	--	39	--	--	--	--	--	229	
			739	2.54	2.03	2.48				5.07	1.10							0
03S/08E-16E01 M 08/09/66 5050 5521	8.4	65 F	516	52	16	33	--	6.0	220	--	18	--	--	--	--	--	199	
			517	2.59	1.38	1.44				2.0	3.61	.51						9
03S/08E-16R01 M 08/09/66 5050 5521	8.7	65 F	548	52	20	31	--	23	209	--	20	--	--	--	--	--	212	
			543	2.59	1.64	1.35				.77	3.43	.56						2
03S/08E-17C01 M 08/09/66 5050 5521	8.2	65 F	623	48	27	46	--	0.0	270	--	25	--	--	--	--	--	234	
			683	2.40	2.28	2.00				4.43	.71							13
03S/08E-17L01 M 08/09/66 5050 5521	8.9	67 F	508	47	20	30	--	15	202	--	14	--	--	--	--	--	202	
			496	2.35	1.69	1.31				.50	3.31	.39						12
03S/08E-17R01 M 08/09/66 5050 5521	8.6	66 F	532	57	18	28	--	15	217	--	17	--	--	--	--	--	219	
			521	2.84	1.53	1.22				.50	3.56	.48						16
03S/08E-18C01 M 08/09/66 5050 5521	9.0	65 F	704	67	31	47	--	29	280	--	26	--	--	--	--	--	298	
			690	3.34	2.61	2.04				.97	4.59	.73						20
03S/08E-18J01 M 08/09/66 5050 5521	8.8	65 F	696	52	19	52	--	21	259	--	26	--	--	--	--	--	209	
			703	2.59	1.58	2.26				.70	4.25	.73						0
03S/08E-18K01 M 08/09/66 5050 5521	8.3	65 F	707	46	20	67	3.2	0.0	322	26	30	35	0.2	--	429	198		
			728	2.30	1.64	2.91	.08			5.28	.54	.85	.56			385	0	
03S/08E-19C01 M 08/09/66 5050 5521	8.8	66.5 F	468	47	20	23	--	9.0	199	--	14	--	--	--	--	--	201	
			471	2.35	1.67	1.00				.30	3.26	.39						73

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME L44 SAMPLE	TEMP F	PH L44 FLD	EC L44 FLD	CA MG	NA K	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				F	R	S102	TDS SUM	TH NCH
							CO ₃	HCO ₃	SO ₄	CL	NO ₃	NO ₃	SO ₄	CL					
035/08E-19001 M 08/09/66 5050 5521	66 F	8.4	521 511	48 2,440	16 1,36	34 1,44	--	--	19 .63	222 3,064	--	12 .34	--	--	--	--	--	188 0	0
035/08E-20E01 M 08/10/66 5052 5521	64.5 F	8.3	588 610	47 2,335	17 1,41	40 1,74	--	--	0.0 4.69	246 4,69	--	20 .56	--	--	--	--	--	188 0	0
035/08E-20J01 M 08/09/66 5050 5521	64 F	8.6	596 570	60 2,99	17 1,45	31 1,35	--	--	17 .57	254 4,17	--	17 .48	--	--	--	--	--	222 0	0
035/08E-20001 M 08/09/66 5050 5521	64 F	8.6	432 473	64 2,420	19 1,56	24 1,22	--	--	10 .33	219 3,159	--	13 .37	--	--	--	--	--	188 0	0
035/08E-20R01 M 08/10/66 5050 5521	66 F	8.3	470 516	40 2,400	21 1,78	24 1,22	--	--	0.0 3.79	231 3,79	--	11 .31	--	--	--	--	--	189 0	0
035/08E-21001 M 08/09/66 5050 5521	65 F	8.6	543 539	55 2,474	21 1,75	33 1,44	--	--	17 .57	240 3,694	--	14 .39	--	--	--	--	--	225 0	0
035/08E-22C01 M 01/07/66 5050 1225 5050	--	8.3	226 220	17 .85	5.2 .43	20 .87	3.2 .08	3.2 4	0.0 1.95	119 .87	0.3 .01	5.8 .16	7.8 .13	0.0 7	0.0	--	--	173 118	64 0
035/08E-22C02 M 01/06/66 5050 1628 5050	--	8.0	517 460	50 2,450	16 1,32	33 1,44	2.6 .07	2.6 1	0.0 4.43	270 4,43	6.2 .14	10 .28	21 .34	--	0.1	--	--	299 272	192 0
035/08E-22F01 M 08/09/66 5050 5521	65 F	8.7	578 606	51 2,454	16 1,35	40 1,74	--	--	17 .57	236 3,87	--	17 .48	--	--	--	--	--	195 0	0
035/08E-22P01 M 08/09/66 5050 5521	65 F	8.0	458 465	46 2,30	16 1,32	30 1,31	--	--	0.0 3.66	223 3,66	--	13 .37	--	--	--	--	--	181 0	0
035/08E-23E01 M 08/09/66 5050 5521	65 F	8.6	496 505	50 2,450	15 1,24	34 1,44	--	--	9.0 .40	211 3,44	--	15 .42	--	--	--	--	--	187 0	0
035/08E-23H01 M 08/09/66 5050 5521	65 F	8.4	444 445	43 2,115	14 1,21	30 1,31	--	--	6.0 .20	205 3,136	--	14 .39	--	--	--	--	--	168 0	0

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	P4 LAP FLO	TEMP FLO	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER TDS			
			EC FLO	CA MG	MG	NA MG	K	CL	NO3	CO3	HCO3	SO4	F	B	SI02	SUM	TDS	TM	NCH	
035/045-24C02 M 08/10/66 5350 5521	6.5	242	18	8.0	24	--	6.0	111	--	11	--	11	--	--	--	--	--	78	0	
035/045-25C01 M 06/23/66 5351 1415 5150	7.0 7.4	456 420	46 2430	14 1.15	14 1.13	2.1 .05	0.0	227	5.8	18	18	18	18	18	0.0	--	0.0	255	174	0
035/045-25L01 M 04/14/66 5353 5521	8.2	251	30	7.5	8.2	1.9	0.0	117	5.4	19	19	19	19	19	0.0	--	0.0	178	106	10
035/045-26C01 M 08/10/66 5050 5521	8.5	524	49	8.9	6.4	--	9.0	235	--	19	--	19	--	--	--	--	--	159	0	
035/045-27C01 M 08/09/66 5350 5521	8.2	495	37	14	4.1	2.4	0.0	238	11	20	17	17	17	17	0.0	--	0.0	321	150	0
035/045-28C01 M 08/09/66 5350 5521	8.1	449	44	14	3.6	--	0.0	209	--	31	--	31	--	--	--	--	--	169	0	
035/045-29C01 M 08/09/66 5350 5521	8.4	444	44	18	3.6	--	15	216	--	14	--	14	--	--	--	--	--	187	0	
035/045-29C01 M 08/10/66 5350 5521	8.7	647	55	20	5.4	4.0	22	290	12	25	18	18	18	18	0.0	--	0.0	410	219	0
035/045-30C01 M 08/10/66 5350 5521	8.4	636	40	24	3.5	1	11	476	.25	.71	.29	.29	.29	.29	--	--	--	354	0	
035/045-31C01 M 08/10/66 5350 5521	8.9	412	63	23	8.7	--	27	284	--	81	--	81	--	--	--	--	--	253	0	
035/045-31C01 M 08/09/66 5350 5521	8.3	648	57	22	6.2	--	0.0	298	--	59	--	59	--	--	--	--	--	234	0	
035/045-31C01 M 08/10/66 5350 5521	8.1	415	62	26	8.7	--	0.0	315	5.17	82	--	82	--	--	--	--	--	262	4	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLE	T.H.P.	PH	EC L/M FLD	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TOS SUM	TH NCH
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂		
035/09E-32A11 M 04/09/66 5050 5521	6.5 F	8.2	579 L/M FLD	46	17	55	--	0.0	240	--	42	--	--	--	--	187	0
				2.30	1.44	2.39		3.94	1.18								
035/09E-32C01 M 04/09/66 5050 5521	6.5 F	8.5	535 L/M FLD	34	19	44	--	6.0	209	--	40	--	--	--	--	164	0
				1.70	1.58	2.09		.20	3.43		1.13						
035/09E-34A01 M 04/10/66 5050 5521	6.5 SF	8.6	468 L/M FLD	34	15	42	--	10	205	--	24	--	--	--	--	159	0
				1.00	1.28	1.83		.33	3.36		.68						
035/09E-02A01 M 04/02/66 5050 5521	6.5 F	8.6	323 L/M FLD	35	15	17	--	8.0	161	--	12	--	--	--	--	151	6
				1.75	1.27	.74		.27	2.64		.34						
035/09E-14B01 M 04/14/66 5050 5521	7.1 F	7.9	238 L/M FLD	20	7.0	14	3.8	0.0	122	1.6	7.6	6.6	0.0	0.0	0.0	190	79
				1.00	.58	.83	.10	2.00	.03	.22	.11	.5				126	0
				.40	.23	.33	.4	.85	1	.9							
035/09E-04F11 M 04/10/66 5050 5521	6.6 F	8.6	458 L/M FLD	42	19	27	--	10	200	--	7.5	--	--	--	--	186	6
				2.10	1.62	1.17		.33	3.28		.21						
035/09E-05A01 M 04/04/66 5050 5521	6.5 F	8.7	536 L/M FLD	50	22	30	--	17	214	--	12	--	--	--	--	216	12
				2.50	1.82	1.31		.57	3.51		.34						
035/09E-16A01 M 04/14/66 5050 5521	6.6 F	8.6	576 L/M FLD	52	22	37	--	15	214	--	17	--	--	--	--	221	21
				2.59	1.82	1.61		.50	3.51		.48						
035/09E-07C01 M 04/09/66 5050 5521	6.7 F	8.2	329 L/M FLD	27	12	21	2.9	0.0	147	1.3	9.0	24	0.0	0.0	0.0	247	117
				1.35	.99	.91	.67	2.41	.27	.25	.39	.12				181	0
				.41	.30	.27	.2	.73	.8	.8							
035/09E-07A01 M 04/09/66 5050 5521	6.5 F	8.4	465 L/M FLD	50	14	14	--	8.0	196	--	11	--	--	--	--	200	26
				2.50	1.50	.74		.27	3.21		.31						
035/09E-18A01 M 04/14/66 5050 5521	6.7 SF	8.3	437 L/M FLD	36	18	31	--	0.0	196	--	16	--	--	--	--	167	7
				1.80	1.54	1.31		3.21	.45								
035/09E-08A01 M 06/14/66 5050 0450	6.7 F	7.9	619 L/M FLD	60	25	31	3.6	0.0	284	1.4	32	29	0.0	0.0	0.0	389	253
				2.69	2.06	1.35	.09	4.66	.37	.90	.47	.14				338	20
				.46	.32	.21	.1	.73	.6	.14	.7						

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLO	PH LOH FLO	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS			
			Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	A	SiO ₂	TH	SUM	NCH
035/09E-09N01 W 08/08/66 5050 5521	66 F	8.3	572	51	22	41	--	0.0	269	--	17	--	--	--	--	221	1
			552	2,454	1,487	1,774			4,441		.44						
035/09E-09J01 W 08/08/66 5050 5521	70 F	8.5	283	30	9.7	19	--	8.0	126	--	.45	--	--	--	--	115	0
			298	1,450	.80	.83		.27	2,07		.27						
035/09E-09L01 W 08/18/66 5050 5521	64 F	8.2	530	60	27	24	2.8	0.0	291	24	19	40	0.0	--	--	408	263
			2,499	2,422	1,222	1,027	.07		4,777	.60	.54	.64				3,488	25
			44	34	19	1			73	9	8	10					
035/09E-09P01 W 06/10/66 5050 1360 5203	64,44 F 7.7	8.1	456	44	18	24	3.3	0.0	224	14	14	21	0.0	--	--	295	186
			2,120	1,448	1,04	.08			3,067	.31	.39	.34				2,49	3
			46	31	22	2			78	7	8	7					
035/09E-10G01 W 08/08/66 5050 5521	63 F	8.7	652	47	26	54	--	15	272	--	12	--	--	--	--	228	0
			609	2,335	2,421	2,330		.50	4,446		.34						
035/09E-11M01 W 08/08/66 5050 5521	64 F	8.3	632	61	26	32	--	0.0	272	--	25	--	--	--	--	260	37
			634	3,004	2,415	1,330			4,446		.71						
035/09E-14P01 W 08/18/66 5050 5521	67,5 F	8.5	219	21	5.2	20	--	3.0	110	--	.42	--	--	--	--	74	0
			402	1,005	.43	.87		.10	1,480		.23						
035/09E-16N02 W 06/08/66 5050 0940 5203	67,5 F 7.6	6.3	623	75	10	34	--	0.0	288	--	34	16	0.0	--	--	232	0
			3,74	.90	1,65				4,772		.96	.26					
035/09E-17O01 W 06/10/66 5050 0945 5203	66,4 F 7.4	8.4	502	82	3.7	26	--	4.0	261	--	22	35	0.0	--	--	220	0
			4,09	.31	1,113			.13	4,428		.62	.56					
035/09E-17P01 W 06/10/66 5050 0940 5203	66,4 F 7.4	8.4	464	48	18	22	2.8	6.0	202	15	19	26	0.0	--	--	276	194
			2,440	1,448	.96	.07		.20	3,431	.31	.54	.42				256	19
			44	30	20	1		4	69	6	11	9					
035/09E-18K01 W 06/11/66 5050 5521	63 F	8.5	402	40	49	44	--	16	305	--	17	--	--	--	--	352	76
			727	2,490	4,004	2,000		.53	5,000		.44						
035/09E-19C01 W 06/18/66 5050 1020 5203	67,2 F 7.7	8.0	426	30	13	35	3.1	0.0	210	13	10	24	0.0	--	--	242	145
			1,440	1,007	1,552	.08			3,444	.27	.24	.39				237	0
			41	24	34	2			79	4	6	9					

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAH FLD	EC LAH FLO	MINERAL CONSTITUENTS IN MILLIFOUVALENT PER LITER										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE										F	R	S102	TDS SUM	TH NCH
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	NO3	CL	SO4	NO3	NO3	CL	SO4									
035/09E-19J01 M 06/10/66 5050 1000 5203	67.9F 7.6	8.5 7.6	434	2.00	.90	1.00	--	7.0	1.94	--	17	.17	--	--	--	--	--	--	--	--	--	--	--	--	145	0		
035/09E-19K01 M 08/18/66 5050 5521	64 F	8.2	712	3.09	1.81	2.61	.08	3.2	0.0	3.64	23	28	14	--	0.2	--	--	--	--	--	--	--	--	421	247	0		
035/09E-20G01 M 06/09/66 5050 1045 5203	64.1F 7.8	8.4 7.8	263	1.25	.61	.87	.06	2.4	3.0	1.25	5.9	11	11	--	0.1	--	--	--	--	--	--	--	--	208	93	0		
035/09E-20J01 M 06/07/66 5050 1015 5203	67.5F 7.7	8.5 7.7	439	2.40	.28	1.31	--	6.0	1.74	--	19	18	--	--	--	--	--	--	--	--	--	--	--	--	134	0		
035/09E-20K01 M 06/07/66 5050 1300 5203	69.7F 7.7	8.6 7.7	379	2.00	.28	1.22	--	6.0	1.53	--	25	11	--	--	--	--	--	--	--	--	--	--	--	--	114	0		
035/09E-21A01 M 08/11/66 5050 5521	67 F	7.6	82	1.0	.63	3.2	--	0.0	.42	--	1.9	.05	--	--	--	--	--	--	--	--	--	--	--	--	43	9		
035/09E-21P01 M 06/08/66 5050 1015 5203	67.6F 7.8	8.4 7.8	318	1.40	.40	.87	--	3.0	1.55	--	12	11	--	--	--	--	--	--	--	--	--	--	--	--	110	0		
035/09E-22M01 M 06/07/66 5050 0930 5203	67.9F 7.8	8.5 7.8	356	3.3	8.1	3.0	3.2	6.0	1.50	22	7.4	17	--	0.0	--	--	--	--	--	--	--	--	--	226	116	0		
035/09E-28G01 M 06/14/66 5050 0945 5203	64 F 7.9	8.5 7.9	293	3.4	1.2	2.4	--	4.0	1.38	--	13	7.4	--	--	--	--	--	--	--	--	--	--	--	--	90	0		
035/09E-28M01 M 06/09/66 5050 1220 5203	68.7F 7.6	8.3 7.6	524	4.8	1.5	3.6	4.0	0.0	.37	8.1	38	12	--	0.0	--	--	--	--	--	--	--	--	--	323	182	0		
035/09E-29H01 M 06/09/66 5050 1250 5203	71.1F 7.9	8.1 7.9	528	3.7	7.9	4.6	5.3	0.0	1.11	0.0	99	4.3	--	0.2	--	--	--	--	--	--	--	--	--	342	125	34		
035/09E-29D02 M 06/14/66 5050 0930 5203	67.8F 7.6	8.5 7.6	505	6.0	5.4	2.4	--	8.0	2.23	--	65	17	--	--	--	--	--	--	--	--	--	--	--	--	172	0		

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAH FLD	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER		
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI02	TDS	SUM	TH		
035/09E-29601 M 06/09/66 5050 1235 5203	67.8F	8.3 7.7	525	50 2.50 47	14 1.15 22	35 1.52 29		4.5 12	0.0 3.62 68	0.0 0.18 3	221 1.33 25	8.6 0.47 3	47 1.33 25	11 0.18 3	--	0.0	--	325 278	181 0	
035/09E-29401 M 06/09/66 5050 1315 5203	68.2F	8.7 7.6	501	54 2.69	4.6 0.38	34 1.48	--	--	10 0.33	213 3.49	--	30 0.85	12 0.19	--	--	--	--	--	154 0	0
035/09E-29403 M 09/01/66 5050 5521	--	8.2	557	53 2.64	11 0.97	37 1.61	--	--	0.0 2.02	123 2.90	--	103 2.90	--	--	--	--	--	--	181 80	80
035/09E-29901 M 06/07/66 5050 1245 5203	69 F	8.4 7.7	574	56 2.79 50	13 1.07 19	37 1.61 29	5.5 14	7.0 2.3	174 2.95	9.0 0.19	73 2.06	0.73 2.1	3.3 37	13 0.21	--	0.1	--	353 299	194 40	
035/09E-31F01 M 06/09/66 5050 1300 5203	69 F	8.5 7.8	466	26 1.50 28	7.0 0.58 13	60 2.61 57	4.6 12	8.0 0.27	146 2.39	10 0.21	44 1.24	0.44 0.38	21 5	21 8	--	0.2	--	304 252	94 0	
035/09E-32A01 M 06/07/66 5050 1200 5203	71 F	8.3 7.9	1020	70 3.49 38	16 1.32 14	96 4.18 45	8.7 22	0.0	131 2.15	1.2 0.02	240 6.77	4.5 0.07	0.7 1	--	0.4	--	--	671 501	241 134	
035/09E-32F01 M 06/09/66 5050 0950 5203	69.6F	8.3 7.8	597	49 2.45 44	4.9 0.40 7	61 2.65 47	5.1 13	0.0	197 3.23	5.6 0.12	77 2.17	11 0.18	11 3	--	0.2	--	--	350 310	142 0	
035/09E-32G01 M 06/07/66 5050 1400 5203	69.6F	8.3 7.8	978	60 2.99 32	19 1.56 17	104 4.52 49	7.5 19	0.0	230 3.77	11 0.23	177 4.99	15 0.24	3 3	--	0.3	--	--	570 507	226 38	
035/09E-32P01 M 06/07/66 5050 1415 5203	64 F	8.5 7.9	654	44 2.20	5.8 0.48	78 3.39	--	--	5.0 0.17	212 3.48	--	80 2.26	18 0.29	--	--	--	--	--	134 0	0
035/10E-06G01 M 08/08/66 5050 5521	67.5F	8.5	289 304	28 1.40	11 0.98	22 0.96	--	--	7.0 0.23	134 2.20	--	22 0.62	--	--	--	--	--	--	119 0	0
035/10E-06M01 M 07/18/66 5050 1415 5050	68 F	8.0	301 290	27 1.35 42	10 0.62 26	22 0.96 30	2.7 0.07 2	0.0	160 2.62	6.4 0.13	8.4 0.28	11 0.18	6 6	--	0.0	--	--	210 166	111 0	
035/10E-08D01 M 08/08/66 5050 5521	68 F	8.2	311 322	35 1.75	11 0.97	17 0.74	--	--	0.0 0.0	160 2.62	--	11 0.31	--	--	--	--	--	--	136 5	5

TABLE F-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	PH LAB FLD	TEMP FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER			TDS SUM	TH NCH
			EC LAB FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	5102						
035/10F-17K01 M 08/08/66 5050 5521	8.6	68 F	352 354	37	12	21	--	7.0	161	--	11	--	--	--	--	--	--	--	144	1	
035/10E-18P01 M 08/08/66 5050 5521	8.5	70 F	396 385	35	14	24	--	4.0	116	--	48	--	--	--	--	--	--	148	47		
035/10E-26E01 M 08/19/66 5050 5521	8.5	69 F	367	27	13	26	--	5.0	160	--	19	9.4	0.2	--	--	--	--	121	0		
035/10E-26M01 M 08/08/66 5050 5521	8.5	68.5F	956 906	74	36	62	--	13	143	--	203	--	--	--	--	--	--	336	197		
035/10E-29K01 M 08/08/66 5050 5521	8.3	67 F	329 345	30	12	25	--	0.0	131	--	18	--	--	--	--	--	--	126	19		
035/10F-32G01 M 08/08/66 5050 5521	8.3	70 F	324 334	26	8.5	29	2.4	0.0	134	12	17	15	--	0.0	--	--	--	235	100		
035/11E-28E01 M 08/19/66 5050 5521	8.3	70 F	284	39	21	38	2	0.0	124	--	3.1	31	0.1	--	--	--	--	115	14		
035/11E-28F01 M 07/15/66 5050 1330	8.2	70 F	231 245	17	10	18	3.1	0.0	127	5.2	4.8	6.4	0.4	0.0	--	--	--	200	84		
035/14E-18R01 M 08/19/66 5050 5521	8.2	67 F	238	14	9.2	20	--	0.0	93	--	11	--	0.1	--	--	--	--	73	0		
04S/06E-06A01 M 08/02/66 5050	8.2	80 F	945	78	28	77	--	0.0	182	--	91	--	--	--	--	--	--	311	162		
04S/06E-08R01 M 08/02/66 5050	7.8	79 F	628	47	20	38	--	0.0	95	--	112	--	--	--	--	--	--	200	122		
04S/06E-09R01 M 08/02/66 5050	8.0	79 F	1440	122	42	131	--	0.0	188	--	59	--	--	--	--	--	--	479	325		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAH FLD	EC LAH FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS					
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SI0 ₂	SUM	TH
04S/06E-26401 M 08/02/66 5050	75 F	8.1	759	33	20	94	--	0.0	194*	--	71	--	--	--	--	166	7
				1.65	1.67	4.09	--		3.18		2.00						
04S/06F-26J01 M 08/02/66 5050	77 F	8.0	862	37	27	99	--	0.0	209	--	108	--	--	--	--	206	35
				1.85	2.27	4.31	--		3.43		3.05						
04S/07E-04M01 M 04/27/66 5050	--	8.4	4010	146	261	266	5.7	8.0	160	317	1070	4.2	--	0.5	--	3220	1440
		8.0	3302	7.29	21.45	11.57	.15	.27	2.62	6.59	30.17	.07				2157	1207
				14	53	24		1	7	17	76						
04S/07E-05A01 M 1000 5050	--	7.2	2074	5.09	4.74	12.35	.68	.77	4.84	10.71	7.95	.23	--	3.0	--	1640	314
				21	28	51		3	20	44	32	1				1453	34
04S/07E-05N01 M 1115 5050	65 F	7.6	1370	43	45	135	2.8	0.0	285	185	197	7.2	--	2.0	--	836	408
				32	26	42			4.67	3.85	5.56	.12				803	175
04S/07E-08G01 M 1145 5050	67 F	7.2	1182	3.89	3.45	5.14	.06	0.0	229	217	151	15	--	2.1	--	800	368
				31	27	41			3.76	4.50	4.56	.24				741	180
04S/07E-17E01 M 1600 5050	65 F	8.1	1850	123	59	174	2.5	0.0	266	231	328	24	--	2.6	--	1160	551
		7.2	1615	6.14	4.85	7.57	.06		4.36	4.80	9.25	.39				1074	333
				33	26	41			23	26	49	2					
04S/07E-30K01 M 1515 5050	70.5 F	8.3	945	54	23	110	3.1	0.0	208	169	66	40	--	1.2	--	620	229
		7.2	862	2.69	1.89	4.79	.08		3.41	3.52	1.86	.81				578	59
				28	20	51	1		36	37	19	8					
04S/08E-02401 M 08/10/66 5521	65 F	8.7	746	51	16	88	--	.25	223	--	75	--	--	--	--	194	0
				734	2.54	1.33	3.83		.43	3.66	2.12						
04S/08E-03C01 M 08/10/66 5521	65 F	8.7	852	46	28	105	--	12	174	--	137	--	--	--	--	233	67
				921	2.30	2.36	4.57		.40	2.92	3.86						
04S/08E-03F01 M 08/10/66 5521	65 F	8.4	663	45	14	75	--	9.0	214	--	84	--	--	--	--	170	0
				672	2.25	1.15	3.24		.30	3.51	1.80						
04S/08E-03K01 M 08/10/66 5521	65 F	8.7	701	52	12	84	--	19	272	--	53	--	--	--	--	191	0
				690	2.59	1.02	3.83		.63	4.46	1.49						

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				NO3	F	R	SI02	MILLIGRAMS PER LITER		
								CO3	HCO3	50%	CL					TDS	SUM	TH
04S/08E-04G01 M 08/10/66 5050 5521	65 F	8.6	926 931	56 2.79	21 1.76	106 4.61	--	15 .50	215 3.53	--	156 4.40	--	--	--	--	--	--	228 27
04S/08E-04N01 M 08/10/66 5050 5521	65 F	8.3	829 848	37 1.85	14 1.15	108 4.70	4.3 .11	0.0 4.20	256 2.90	14 .29	103 2.90	33 .53	--	0.2	--	507 439	153 0	
04S/08E-05P01 M 08/10/66 5050 5521	65 F	8.6	822 827	56 2.79	23 1.96	94 4.09	--	19 .63	235 3.85	--	114 3.21	--	--	--	--	--	238 14	
04S/08E-06C01 M 08/10/66 5050 5521	65 F	8.5	879 869	65 3.24	25 2.13	97 4.22	--	12 .40	325 5.33	--	94 2.65	--	--	--	--	--	269 0	
04S/08E-06K01 M 08/10/66 5050 5521	--	8.7	929 941	56 2.79	22 1.86	114 4.9%	--	35 1.17	289 4.74	--	99 2.79	--	--	--	--	--	233 0	
04S/08E-06N01 M 07/15/66 5050	78.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04S/08E-11J01 M 07/15/66 5050 1430 5050	--	7.9 7.3	539 495	42 2.10	11 .92	67 2.91	--	0.0 5.13	313 5.13	--	5.7 .16	19 .31	--	--	--	--	151 0	
04S/08E-13N01 M 07/15/66 5050 1400 5050	--	7.6 7.0	545 500	58 2.89	25 2.06	13 .57	--	0.0	227 3.72	--	25 .71	46 .74	--	--	--	--	248 62	
04S/08E-16F01 M 07/15/66 5050 1020 5050	--	7.9 7.2	912 825	63 3.14	18 1.48	112 4.87	4.9 .13	0.0 7.13	435 7.13	15 .31	70 1.97	18 .11	--	0.3	--	517 507	232 0	
04S/08E-16Q01 M 07/15/66 5050 1245 5050	--	7.7 7.5	168 1725	18 .90	4.9 .40	7.7 .33	0.8 .02	0.0 1.00	61 0.4	15 0.4	2.0 .42	5.0 .08	--	0.0	--	130 83	65 15	
04S/08E-29K01 M 07/15/66 5050 1200 5050	--	8.3 7.2	1100 980	19 .95	5.0 .41	212 9.22	4.1 .10	0.0 8.76	534 8.75	30 .5	74 1.8	13 .2	--	0.3	--	674 619	118 0	
04S/08E-35J01 M 07/15/66 5050 1340 5050	60 F	8.6 7.2	634 890	74 3.69	9.5 .79	125 5.44	--	17 .57	283 3.99	--	94 2.65	24 .39	--	--	--	--	224 0	

TABLE B-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	PH LAH FLD	TEMP FLD	EC LAH FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER							MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER TDS TH		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	SUM	TH	NCH		
04S/09E-03001 M 06/17/66 5050 1000 5203	8.1 7.7	66.3F	432	31 1.55 36	11 .90 21	42 1.83 42	2.7 .07 2	0.0	169	10	43	9.7	0.1	270	124	0				
04S/09E-03001 M 06/17/66 5050 1030 5203	8.4 7.7	67 F	547	45 2.25 43	8.0 .66 13	52 2.24 43	4.0 .10 2	6.0	163	5.0	72	12	0.0	327	145	2				
04S/09E-05001 M 06/17/66 5050 1300 5203	8.5 7.8	69.5F	557	51 2.54	1.1 .09	53 2.31	--	5.0	194	--	60	12	--	--	132	0				
04S/09E-05001 M 06/16/66 5050 1300 5203	8.4 7.7	64 F	416	28 1.40 33	11 .80 21	43 1.87 44	2.2 .06 1	6.0	170	13	22	12	0.1	270	114	0				
04S/09E-05001 M 06/16/66 5050 1500 5203	-- 7.8	--	1150	94 4.19 41	25 2.06 20	89 3.87 38	7.0 .18 2	0.0	131	1.2	284	0.9	0.2	799	313	0				
04S/09E-08001 M 06/10/66 5050 1200 5203	8.3 7.7	64.7F	702	48 2.40 33	14 1.15 16	81 3.52 49	5.5 .14 2	0.0	249	9.2	92	10	0.2	417	178	0				
04S/09E-09001 M 06/17/66 5050 1350 5203	8.0 7.7	67.5F	278	19 .95 33	6.2 .51 18	31 1.35 47	1.5 .04 1	0.0	113	15	9.6	21	0.0	209	73	0				
04S/09E-09001 M 06/16/66 5050 1320 5203	8.2 7.8	67.5F	342	25 1.25 33	9.8 .81 21	34 1.65 44	2.6 .07 2	0.0	150	17	18	24	0.0	251	103	0				
04S/09E-22001 M 06/19/66 5050	--	--	584	--	--	--	--	3.0	229	--	--	--	--	--	186	0				
04S/10E-03001 M 07/13/66 5050 0930 5050	8.1 7.0	74 F	1540	44 2.20 16	13 1.07 8	224 9.92 72	21 .54 4	0.0	126	0.0	404	0.0	0.7	902	163	0				
04S/10E-06001 M 07/12/66 5050 1440 5050	7.6 7.0	74 F	550	53 500	18 3.14	33 1.44	0.6 .02	0.0	305	32	8.2	2.7	0.0	325	229	0				
04S/10E-10001 M 07/15/66 5050	8.2 7.3	74 F	346	14 330	11 .90	44 2.09	3.6 .09	0.0	160	5.4	21	1.9	0.4	252	75	0				

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	PH LAB FLD	TEMP FLD	EC LAR FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE						NO3	MILLIGRAMS PER LITER TDS SUM		
								CO3	HC03	504	CL	F	B		S102		
045/10E-10N01 M 07/15/66 5050	--	77.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
045/10E-14L01 M 07/15/66 0415 5050	7.9 440	62 F	489 440	4.3 2.15	9.9 .81	3.9 1.70	--	0.0	11.3	--	10	13	0.6	--	--	--	148 56
045/10E-25F01 M 07/17/66 1115 5050	7.9 7.6	70 F	368 330	3.0 1.50	11 .90	2.4 1.26	2.5 .06	0.0	152	10	16	28	--	0.0	--	253	119 0
045/11E-05F01 M 07/15/66 1100 5050	8.2 2170	77 F	2570 2170	11.1 5.54	9.0 .74	3.77 16.40	--	0.0	108	--	751	0.0	--	--	--	--	314 226
055/07E-03N01 M 06/21/66 1030 5050	8.0 7.8	71 F	1680 1500	6.2 3.09	9.3 7.64	1.23 5.35	3.3 .08	0.0	175	1.68	349	11	--	0.5	--	976	538 395
055/07E-06N01 M 04/24/66 1100 5050	8.5 7.3	72 F	1400 1238	4.1 2.05	8.6 7.07	1.06 4.61	3.0 .08	5.0	24.7	1.09	244	22	--	0.5	--	857	458 287
055/07E-08K01 M 06/03/66 5050	--	--	1400	4.5	8.5	1.01	--	11	23.6	--	279	--	--	--	--	--	463 251
055/07E-12C01 M 06/22/66 1240 5050	8.0 7.8	--	1380 1160	5.4 2.69	10.4 8.55	8.3 3.61	2.8 .07	0.0	4.58	1.02	161	20	--	0.7	--	811	564 189
055/08E-17N01 M 04/24/66 1515 5050	8.2 7.4	--	1320 1205	7.2 3.59	6.5 5.34	11.9 5.18	3.3 .08	0.0	1.93	4.67	4.5	16	--	0.5	--	1020	449 291
055/08E-19J01 M 04/29/66 5050	8.3	--	1550	8.8	7.2	1.32	1.5	0.0	2.46	2.76	200	23	--	0.6	--	1160	514 313
055/08E-30L01 M 06/21/66 1505 5050	8.1 7.3	72 F	1260 1250	6.7 3.34	5.8 4.77	11.8 5.13	2.6 .07	0.0	2.01	4.06	5.3	14	--	0.5	--	898	404 234
055/08E-30N01 M 06/21/66 1500 5050	8.3 7.2	71 F	1410 1410	8.8 4.39	3.6 2.97	1.30 5.66	--	0.0	3.27	--	105	15	--	--	--	--	368 100

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER			
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	SUM	IDS	TH	NCH								
05S/08E-32P01 M 06/22/66 5050 1520	--	8.3	1880	123	56	216	1.7	0.0	375	376	211	23	--	--	1.0	--	--	1250	540	1191	233						
05S/09E-04A01 M 01/08/66 5050 1310	--	8.2	680	66	17	44	2.8	0.0	260	19	44	40	--	--	0.0	--	--	399	236	360	23						
05S/09E-14E01 M 07/11/66 5050	77.0F	--	550	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
05S/09E-14M01 M 07/11/66 5050	76.5F	--	485	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
05S/09E-16M01 M 07/11/66 5050 1215	67 F	8.0 7.8	653 600	60	12	67	--	0.0	328	--	25	24	--	--	--	--	--	202	202	--	0						
05S/09E-17O01 M 07/11/66 5050 1335	66 F	8.1 7.7	1170 1030	63	11	167	--	0.0	340	--	189	7.8	--	--	--	--	--	203	203	--	0						
05S/09E-18D01 M 07/11/66 5050 1315	--	8.3 7.6	1610 1420	99	19	228	6.1	0.0	518	35	248	19	--	--	0.3	--	--	932	327	908	0						
05S/09E-24J01 M 07/11/66 5050 1335	65 F	8.2 7.6	728 655	44	12	103	--	0.0	355	--	24	39	--	--	--	--	--	162	162	--	0						
05S/09E-28E01 M 06/24/66 5050 0915	--	8.4 7.4	2040 2070	31	7.4	477	3.0	11	999	47	164	0.7	--	--	0.6	--	--	1280	108	1231	0						
05S/09E-33R01 M 07/13/66 5050 1425	69 F	8.1 7.3	2650 2250	139	24	357	6.5	0.0	198	54	720	0.4	--	--	0.3	--	--	1720	445	1398	283						
05S/10E-05D01 M 07/12/66 5050 0900	66 F	8.0 7.7	527 470	48	16	40	--	0.0	242	--	20	28	--	--	--	--	--	186	186	--	0						
05S/10E-17M01 M 07/13/66 5050 0925	65 F	8.6 7.6	966 540	66	14	51	--	19	207	--	15	29	--	--	--	--	--	224	224	--	23						

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

DATE TIME	WELL NUMBER	TEMP	PH	EC LAB FLD	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				TDS SUM	TH NCH
					CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂		
05/10/66	23L01 M	--	8.4	257	30	0.7	24	--	2.0	108	--	16	11	--	--	--	--	78
07/13/66	5050		7.8	252	1.50	.06	1.04	--	.07	1.77	--	.45	.18	--	--	--	--	0
05/10/66	33F01 M	65 F	8.5	653	58	20	56	--	.11	242	--	15	41	--	--	--	--	231
07/14/66	5050		7.3	585	2.69	1.72	2.44	--	.37	3.97	--	.42	.66	--	--	--	--	14
05/11/66	29F01 M	67 F	8.1	332	24	5.6	--	--	0.0	119	--	.44	32	--	--	--	--	93
05/24/66	5050		7.0	279	1.40	.46	--	--	1.95	--	--	.27	.52	--	--	--	--	0
06/5/66	23401 M	--	8.1	732	59	27	53	2.2	0.0	209	152	32	12	--	0.4	--	474	257
05/27/66	5050		7.4	615	2.94	2.22	2.31	.06	3.43	3.15	.90	.19	.12	--	--	--	440	86
07/14/66	5050	73 F	8.5	1690	9.2	1.0	4.04	6.5	15	716	1.0	200	0.0	--	2.3	--	1040	27
07/14/66	5050		8.2	1550	.66	.08	17.57	.17	.50	11.74	.02	5.64	.32	--	--	--	990	0
06/5/66	12801 M	77.0 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/11/66	5050		--	1440	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/5/66	22L01 M	70 F	8.3	1520	54	22	246	4.7	0.0	212	260	222	0.0	--	1.6	--	919	224
07/14/66	5050		8.0	1360	2.49	1.81	10.70	.12	3.48	5.41	6.26	4.1	--	--	--	--	914	50
06/5/66	5050		--	--	13	12	7.0	1	23	35	41	--	--	--	--	--	--	--
06/5/66	07001 M	67.5 F	8.2	1990	10.7	20	270	6.3	0.0	269	22	.84	16	--	0.2	--	1230	349
07/13/66	5050		7.2	1740	5.34	1.64	11.75	.16	4.41	4.6	13.65	.26	--	--	--	--	1057	129
06/5/66	5050		--	--	24	1.9	6.2	1	23	2	7.3	1	--	--	--	--	--	--
06/5/66	09801 M	72 F	8.7	882	84	6.4	--	--	19	343	--	26	41	--	--	--	236	0
09/00	5050		7.3	740	4.19	.53	--	--	.63	5.63	--	.73	.66	--	--	--	--	--
06/5/66	24L01 M	47 F	8.7	424	31	1.1	--	--	12	143	--	16	6.5	--	--	--	--	82
05/25/66	5050		7.2	370	1.85	.09	--	--	.40	2.35	--	.45	.10	--	--	--	--	0
08/30	5050		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/5/66	27K01 M	67 F	8.5	228	14	5.1	--	--	4.0	45	--	.49	15	--	--	--	--	66
05/24/66	5050		7.1	194	.90	.42	--	--	.113	1.39	--	.14	.24	--	--	--	--	0
16/00	5050		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/5/66	06L01 M	64 F	7.9	532	51	2.1	--	--	0.0	149	--	20	56	--	--	--	--	136
05/24/66	5050		4.25	425	2.54	.17	--	--	2.44	--	--	.56	.90	--	--	--	--	14
11/20	5050		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAST TYPE SAMPLE	TEMP F/D	PH L/4 F/D	FC L/4 F/D	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
												NO ₃	F	B	SIO ₂	TOS	SUM	T4	NCH
065/121-21011 05/24/66 5050 1030 5050	64 F 7.1	8.5 2.0	236 200	17 85	4.5 37	--	--	2.0 .07	94 1.54	--	4.9 .14	12 .19	--	--	--	--	61 0		
065/131-16001 05/24/66 5050 1145 5050	64 F 6.4	7.0 3.0	260 300	21 1.05	6.7 55	14 .61	1.8 .05	0.0 2	40 .66	14 .37	7.9 .22	64 1.03	0.1 16	--	0.1	--	222 153	80 47	
065/131-32002 05/24/66 5050 1320 5050	67 F 7.3	6.5 2.17	259 217	22 1.10	0.7 .06	--	--	2.0 .07	91 1.49	--	11 .31	--	--	--	--	--	58 0		
065/211-34111 10/00/65 5402 5702	--	7.3	--	14.2 7.10	6.8 56	341 14.83	--	0.0 .59	36 27	13 21.60	765 1.60	0.0	--	--	--	1460 1287	384 355		
075/081-13801 06/24/66 5050 1035 5050	--	4.5 7.2	1041 1140	77 3.44	38 3.12	92 4.00	2.3 .06	16 .53	292 4.79	135 2.81	81 2.28	1.5 .02	0.5	0.5	--	624 587	347 81		
075/081-13801 07/27/66 5100	--	--	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
075/081-17211 05/17/66 5050 5050	--	8.0	933	66 3.29	40 3.34	54 2.52	--	0.0 5.36	327 5.36	--	25 .71	1.9 .03	--	--	--	332 64			
075/081-19801 05/17/66 5050 1115 5050	71 F 8.2	7.9	798	6.0 2.99	44 3.62	49 2.13	--	0.0 5.35	326 2.85	137 6.65	23 .65	1.7 .03	--	--	--	331 475	64		
075/081-19801 05/17/66 5050 1130 5050	71 F 8.0	8.5	854	6.6 3.29	43 3.58	67 2.81	--	0.0 5.02	306 5.02	--	28 .79	15 .24	--	--	--	344 93			
075/081-20401 05/17/66 5050 1045 5050	71 F 8.1	9.8	988	7.3 3.64	53 4.63	59 2.57	--	0.0 5.74	350 5.74	--	55 1.55	7.2 .12	--	--	--	404 117			
075/081-20401 05/17/66 5050 1100 5050	80.5 F 8.0	8.77	877	6.5 3.24	45 3.75	59 2.57	--	0.0 5.36	327 5.36	--	30 .85	9.0 .14	--	--	--	350 82			
075/081-19801 06/24/66 5050 1055 5050	73.5 F 7.4	8.1 8.20	823 820	6.2 3.09	26 2.14	74 3.31	2.1 .05	0.0 3.79	231 3.14	153 3.14	48 1.35	1.1 .02	0.4	0.4	--	531 482	263 74		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME LAG SAMPLER	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER		
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	5102	TDS	SUM	TH	NCH	
07S/09E-19F02 M 06/24/66 5050 1050	7.2	825	3.09	2.06	3.35	.05	2.0	0.0	286	99	49	1.1	0.5	0.4	--	471	258		
07S/09E-19G02 M 09/28/66 5000	69.2F	760	36	24	39	1	--	--	58	25	17	--	--	--	--	456	24		
07S/09E-24L01 M 01/19/66 5050	--	12600	609	410	1570	.31	12	0.0	140	1402	3620	0.0	--	1.4	--	8040	3210		
07S/09E-25R01 M 01/19/66 5050	--	16200	24.45	46.44	130.50	.46	18	0.0	436	4770	3500	0.0	--	7.2	--	13400	3560		
07S/09E-26R01 M 01/19/66 5050	--	11360	9.58	31.73	85.26	.36	14	0.0	244	2360	2580	0.0	--	4.6	--	7870	2070		
07S/09E-32G01 M 09/28/66 5000	67.4F	980	8	25	67	--	--	--	3	39	58	--	--	--	--	7616	1871		
07S/09E-36R01 M 03/09/66 5050	--	4820	2.84	7.89	41.50	.12	4.7	38	492	1340	566	0.0	--	4.1	--	3390	537		
07S/10E-23K01 M 01/07/66 5050 1630	--	5600	12.38	2.30	42.41	.24	9.5	0.0	78	306	1770	1.6	--	1.9	--	3378	671		
07S/10E-23K02 M 01/07/66 5050 1635	--	1700	34	4.1	320	5.3	32	681	34	105	38	38	--	0.5	--	989	102		
07S/11E-01M01 M 01/07/66 5050 1520	68.5F	250	.85	.51	1.09	.16	6.1	0.0	124	8.1	3.3	11	--	0.0	--	198	68		
07S/12E-19A01 M 05/24/66 5050 1440	67 F	7.1	2.1	1.65	.15	--	--	10	123	--	4.9	13	--	--	--	137	0		
07S/13E-04P01 M 05/23/66 5050 1600	67 F	7.0	2.69	1.70	.26	--	--	0.0	143	--	11	--	--	--	--	98	0		

TABLE F-2
MINERAL ANALYSES OF GROUND WATER

STAFF DATE TIME	WELL LAR SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HC03	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				NO3	F	H	MILLIGRAMS PER LITER TDS			
											CL	SO4	504	CL				SI02	50H	NCH	
075/13E-22C01 M		66 F	7.9	426	54	2.4	--	--	0.0	225	--	10	--	--	--	--	--	--	--	145	0
05/23/66	5050			345	2.69	.20				3.69	.28										
1500	5050																				
075/13E-31M01 M		66 F	8.5	704	60	20	--	--	11	377	--	18	94.5	--	--	--	--	--	--	235	0
05/23/66	5050		7.2	595	2.99	1.70			.37	6.18	.51	.15									
1420	5050																				
075/14E-09R01 M		63 F	8.0	280	26	2.9	--	--	0.0	135	--	8.6	94.3	--	--	--	--	--	--	77	0
05/23/66	5050		7.0	238	1.30	.24				2.21	.24	.15									
1345	5050																				
075/15E-18K01 M		69 F	8.7	297	31	2.5	--	--	10	126	--	2.7	74.1	--	--	--	--	--	--	88	0
05/23/66	5050		7.1	255	1.55	.21			.33	2.07	.08	.11									
1320	5050																				
075/15E-30E01 M		67 F	8.8	904	51	4.6	--	--	25	163	--	15	40	--	--	--	--	--	--	320	145
05/23/66	5050		7.4	760	2.54	3.85			.83	2.67	.42	.64									
1245	5050																				
085/08E-21A03 M		82 F	8.4	1670	90	40	224	6.8	7.0	253	480	120	14.5	--	1.2	--	1150	389			
05/27/66	5050		7.3	1355	4.49	3.29	9.74	.17	.23	4.15	9.98	3.38	.02				1094	170			
1720	5050				25	19	55	1	1	23	56	19									
085/09E-11M01 M		78 F	8.6	2460	76	27	--	--	10	133	--	333	0.4	--	--	--	--	--	--	304	179
05/25/66	5050		7.3	1860	3.79	2.29			.33	2.18	.01										
1000	5050																				
085/10E-09F02 M		--	6.6	8400	407	166	954	15	0.0	55	519	2620	0.0	--	0.4	--	5770	2200			
03/10/66	5050			8050	20.31	13.65	41.50	.38		.90	10.80	73.88					4708	2157			
					27	18	55	1		1	13	86									
085/10E-21001 M		--	8.5	4980	120	97	791	5.1	11	172	658	1150	0.3	--	1.3	--	3060	700			
01/13/66	5050			5150	5.99	7.97	34.41	.13	.37	2.82	13.69	32.43					2918	541			
					12	16	71		1	6	28	66									
085/14E-02D01 M		70 F	8.8	367	33	3.3	--	--	10	157	--	8.8	6.8	--	--	--	--	--	--	96	0
05/23/66	5050		7.2	288	1.65	.27			.33	2.57	.25	.11									
1045	5050																				
085/14E-24401 M		67 F	8.7	456	36	12	--	--	10	186	--	3.9	9.4	--	--	--	--	--	--	142	0
05/23/66	5050		7.2	365	1.80	1.04			.33	3.05	.11	.15									
1100	5050																				
085/18E-01B51 M		--	8.0	1652	136	9.7	150	4.0	0.0	139	4.8	433	0.2	--	0.1	--	918	380			
08/25/66	5050			6.79	.80	6.53	.10			2.28	.10	12.21					806	266			
1100	5000				48	6	46	1		16											

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME LAB SAMPLER	TEMP	PH LAB FLD	EC LAB FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				TH SUM	
				CA	MG	NA	K	CL	CO3	HCO3	SO4	NO3	F	B	S102	TDS		
09S/09E-21F01 M 05/25/66 5050 1045 5050	67 F	8.8 7.1	997 800	46 2.30	1.7 .14	--	--	19 .63	167 2.74	--	124 3.50	14 .23	--	--	--	--	--	122 0
09S/12E-01C01 M 05/26/66 5050 1100 5050	69 F	8.2 7.1	535 470	48 2.40	26 2.14	27 1.17	1.0 .03	0.0 4.89	298 84	25 9	12 .34	6.0 .10	--	0.0	--	--	310 291	229 0
09S/13E-33P02 M 05/04/66 5000	66.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09S/14E-01B01 M 01/14/66 5050 1405 5050	72.5F	8.2	256 240	16 .80	5.4 44	30 1.31	3.3 .08	0.0 2.07	126 84	10 9	6.9 .21	0.3 .19	--	0.0	--	0.0	167 134	62 0
09S/14E-01B02 M 01/18/66 5050 1300 5050	72 F	8.2	256 240	17 .85	7.2 3.59	23 1.00	5.4 .14	0.0 1.94	118 80	9.2 8	6.7 .19	7.5 .12	--	0.0	--	0.0	220 134	72 0
09S/14E-01B03 M 01/15/66 5050 1345 5050	72.5F	8.5	346 330	30 1.50	8.5 .70	28 1.22	3.1 .08	4.0 .13	156 2.56	6.7 .14	13 .37	11 .18	--	0.0	--	0.0	266 181	110 0
09S/15E-21R01 M 05/19/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09S/15E-22R02 M 04/04/66 5000 5000	--	8.2	919	65 3.24	44 3.62	54 2.35	2.3 .06	0.0 3.74	228 42	18 4	126 3.55	81 1.30	0.0	0.0	0.0	60	562	343 156
09S/15E-22R02 M 05/19/66 5000	68.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09S/15E-23J02 M 05/09/66 5000	72.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09S/15E-25J02 M 03/09/66 5000 5000	--	7.7	487	39 1.95	9.6 .79	44 1.91	1.9 .05	0.0 2.25	137 49	1.0 .02	80 2.26	3.3 .05	0.0	0.1	38	284	137 25	
09S/15E-28H01 M 05/09/66 5000	67.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME SAMPLED	TEMP	PH LAH FLD	FC LAH FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER										MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO ₃	CO ₂	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	SUM	TDS	TH	NCH
095/15F-29301 B 05/09/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/15E-30602 M 04/04/66 5000	--	8.8	266	22	5.7	20	3.0	12	88	1.0	19	21	0.1	0.0	76	--	78	0	223	
095/15E-33302 A 05/19/66	66.0F	--	1082	1.10	.47	.87	.08	.40	1.44	.02	.54	.34								
095/15E-34301 M 05/19/66	70.6F	--	269	4.4	1.9	3.5	3	15	53	1	20	12								
095/15E-35801 M 05/19/66	--	--	880	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/15E-35802 M 05/19/66	66.7F	--	853	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/15E-36003 M 05/09/66	74.3F	--	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/16E-14401 M 05/09/66	72.4F	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/16E-17801 M 06/01/66 5050 1040 5050	73.1F	7.4	160	12	2.7	14	2.9	0.0	66	3.6	14	1.2	--	0.0	--	163	44	0	83	
095/16E-20401 M 05/09/66	71.4F	--	239	.60	.22	.61	.07		1.08	.07	.39	.02								
095/16E-20802 M 05/09/66	71.9F	--	241	4.0	1.5	4.1	5		.69	.4	25	1								
095/16E-25001 M 05/11/66	73.1F	--	261	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	LAB	DATE	TIME	TEMP	PH	MILLIGRAMS PER LITER										TDS	TH									
							Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F			B	SI0 ₂	SUM						
095	16E-284001	M	05/11/66		72.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
095	16E-311001	M	05/17/66																								
095	16E-34001	M	06/16/66			8.7	303	27	8.0	24	1.5	9.0	124	8.0	13	10	0.0	0.0	0.0	60	--	--	100				
095	16E-35001	M	05/11/66		72.1F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	221				
095	17E-01001	M	05/10/66		64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-07001	M	05/10/66		70.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-21001	M	05/19/66		72.1F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-21001	M	05/19/66		72.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-21001	M	05/19/66		71.9F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-25001	M	05/11/66		69.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
095	17E-27001	M	03/11/66		74 F	7.9	345	35	6.1	27	1.6	0.0	112	20	28	0.3	0.3	0.0	71	--	--	112					
095	17E-28001	M	05/10/66		71.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	244				

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE DATE TIME	WELL ID#	NUMBER LAK SAMPLE	TEMP	PH	FC LAK FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER							MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TDS	TH
						PERCENT	REACTANCE	VALUF											
09S/17E-28001	M	5000	71.7F	--	--	290	--	--	--	--	--	--	--	--	--	--	--	--	
09S/17E-29001	M	5000	71.7F	--	303	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/17E-30F01	M	5000	73.4F	--	283	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/17E-30H02	M	5000	74.4F	--	322	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/17E-31A01	M	5000	73.4F	--	312	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/17E-32A01	M	5000	72.1F	--	278	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/18E-19E01	M	5000	--	74.6	218	18	74.5	14	1.4	0.0	41	11	13	18	0.2	0.0	67	76	
04/20/66	5000	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
09S/19E-19011	M	5000	67.4F	--	505	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/18E-21J01	M	5000	71.4F	--	484	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/18E-22M01	M	5000	71.4F	--	474	--	--	--	--	--	--	--	--	--	--	--	--	--	
09S/18E-26E01	M	5000	--	8.6	542	52	21	24	2.7	15	163	21	42	28	0.3	0.1	42	216	
03/11/66	5000	2.53	1.73	1.26	0.07	0.50	2.67	0.44	1.14	0.45	0.84	1.14	0.45	0.84	1.14	0.45	0.84	1.14	
09S/18E-27Q01	M	5000	73.4F	--	443	46	31	22	1	1.0	51	6	23	9	--	--	--	--	
05/12/66	5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAR SAMPLER	TEMP F	PH LAR FLD	EC FLD	CA	MG	NA	K	CO ₃	HCO ₃	50%	CL	NO ₃	MILLIGRAMS PER LITER				TDS SUM
														F	H	S102	TH NCM	
095/18E-29401 M		--	8.9	378	29	13	33	2.3	PH	90	22	18	20	0.3	0.7	71	--	126
03/01/66 5000					1.45	1.07	1.44	0.6	.93	1.48	.86	.51	.32			281	6	
095/18E-33001 M		--	--	--	36	27	36	1	25	40	12	14	9					
05/17/66 5000		--	--	325	--	--	--	--	--	--	--	--	--	--	--	--	--	
095/18E-34801 M		70.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/12/66 5000				524														
095/18E-34401 M		72.7F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/12/66 5000				546														
095/18E-35401 M		68.8F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/12/66 5000				754														
095/19E-27001 M		--	8.6	363	30	12	29	4.3	8.0	158	10	10	20	0.2	0.0	49	--	124
03/01/66 5000					1.50	.99	1.26	.11	.27	2.59	.21	.28	.32			250	0	
095/19E-32601 M		68.9F	--	--	39	26	33	3	7	71	6	8	9					
05/12/66 5000				464														
105/09E-17E01 M		--	8.7	5350	33	105	992	6.7	61	676	49	1440	1.6	--	8.0	--	2950	514
03/17/66 5050					1.65	1.63	43.15	.17	2.03	11.09	1.02	40.61	.03			3028	0	
1145 5050					3	16	81		4	20	2	74						
105/10E-01901 M		70 F	8.1	1350	100	57	93	4.2	0.0	252	203	194	2.5	--	1.0	--	853	483
09/25/66 5050			7.2	1120	4.99	4.69	4.05	.11		4.13	4.22	5.47	.04				778	277
1230 5050					36	34	29	1		30	30	39						
105/10E-28001 M		65 F	7.8	727	61	31	42	3.6	0.0	252	57	66	11	--	0.4	--	440	281
09/25/66 5050			7.0	600	3.04	2.55	1.83	.09		4.13	1.19	1.86	.18				395	75
1320 5050					40	34	24	1		56	16	25	2					
105/12E-25L01 M		65.5F	8.2	914	48	5.4	--	--	0.0	163	--	146	--	--	--	--	--	142
09/25/66 5050			7.1	720	2.40	.44				2.67								9
1500 5050																		
105/12E-27K01 M		66 F	8.1	1940	89	26	--	--	0.0	196	--	442	--	--	--	--	--	330
09/25/66 5050			7.1	1550	4.64	2.16				3.21								170
1515 5050																		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

DATE TIME	WELL NUMBER	TEMP	PH	EC		MILIEQUIVALENTS IN		PERCENT REACTANCE VALUE		MILLIGRAMS PER LITER																	
				LAB	FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	SUM	TDS	TH	NCH						
05/13F-11J01 M 05/04/66	5000	69.0F	--	--	--	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/13F-12C01 M 05/04/66	5000	66.6F	--	--	692	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13E-12R01 M 05/04/66	5000	67.4F	--	--	505	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13E-14R02 M 05/04/66	5000	65.2F	--	--	5314	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13E-15J01 M 03/09/66	5000	65.7F	7.4	1390	125	23	117	3.1	0.0	218	32	306	7.7	0.1	0.0	66	--	408	--	787	229	--	--	--	--	--	--
05/13F-10A01 M 05/04/66	5000	69.2F	--	--	413	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13E-10A01 M 05/27/66	5050	69.4F	8.4	418	43	6.3	32	3.4	1.0	165	8.4	34	10	--	0.0	--	290	133	219	0	--	--	--	--	--	--	--
05/13E-10G01 M 05/04/66	5000	64.2F	--	--	3346	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13E-10J01 M 05/27/66	5050	74.6F	8.6	238	7.6	0.0	47	1.5	5.0	94	54	20	0.8	--	0.0	--	164	19	134	0	--	--	--	--	--	--	--
05/13E-10R01 M 05/04/66	5000	66.5F	--	--	4233	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13F-10R01 M 05/24/66	5050	67 F	7.9	4310	544	90	125	15	0.0	116	14	1340	4.8	--	0.0	--	2940	1730	2190	1636	--	--	--	--	--	--	--
05/13E-10A01 M 05/27/66	5050	66.6F	7.9	4200	535	90	122	16	0.0	94	14	1330	2.7	--	0.0	--	3170	1710	2157	1634	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	LWR SAMPLER	TEMP	PH LWR FLD	EC LWR FLD	CA	MG	NA	K	CO ₃	MCO ₃	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				NO ₃	F	B	MILLIGRAMS PER LITER	
											CO ₂	SO ₄	CL	504				105	SUM
105/13E-11E01 05/04/66	5000	68.7F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-14F01 05/11/66	5000	67.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-15A01 05/04/66	5000	64.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-15A01 05/26/66	5050	66 F	7.4 7.0	5210 3700	551 27.49	62 5.10	--	--	0.0	52 .65	--	1590 44.84	--	--	--	--	--	--	1630 1589
105/13E-15C01 03/16/66	5050	64.4F	7.4	10700 9432	1210 60.38	221 18.21	879 38.19	--	0.0	126 2.07	--	3660 103.21	--	--	--	--	--	--	3930 3830
105/13E-15C01 05/11/66	5000	66.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-15C02 05/04/66	5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-16A01 03/09/66	5000	64 F	7.4	2130	205	43	149	4.9	0.0	210	26	570	5.5	0.1	0.0	70	--	688 516	
105/13E-23M01 05/04/66	5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-23M01 05/27/66	5050	--	8.5	265	20	1.4	34	1.1	3.0	100	5.6	26	1.1	--	0.0	--	--	205 141	
105/13E-24C01 05/04/66	5000	64.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
105/13E-27P01 03/16/66	5000	64 F	7.0	689	59	15	54	1.5	0.0	166	36	116	1.1	0.2	0.0	59	--	208 425	
105/13E-27P01 03/16/66	5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH	EC LAR FLD	MILLIGRAMS PER LITER											MILLIGRAMS PER LITER		
				CA	MG	NA	K	CO ₃	HC0 ₃	SO ₄	CL	NO ₃	F	B	S102	TDS	TH
				MINERAL CONSTITUENTS IN											PERCENT REACTANCE VALUE		
				MILLIEQUIVALENT PER LITER													
10S/13E-35R01 M 03/29/66 5000	64 F	8.8	542	29	6.8	77	2.7	18	1.44	23	72	2.6	0.2	0.0	84	--	100
				1.45	.56	3.35	.07	.60	2.36	.44	2.03	.04				386	0
				27	10	62	1	11	43	9	37	1					
10S/14E-03R01 M 03/09/66 5000	57 F	7.5	1320	160	30	62	5.7	0.0	252	20	282	25	0.1	0.0	69	--	522
				7.98	2.47	2.70	.15		4.13	4.42	7.95	.40				777	316
				60	19	20	1		32	3	62	3					
10S/14E-05C02 M 05/19/66 5000	64.4 F	--	508	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-06J01 M 05/16/66 5000	--	--	606	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-09P01 M 05/19/66 5000	64.4 F	--	558	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-10J01 M 05/16/66 5000	64.7 F	--	676	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-13A01 M 05/20/66 5000	66.6 F	--	592	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-14B01 M 05/11/66 5000	66.4 F	--	400	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-16D01 M 04/21/66 5000	64 F	8.0	776	94	19	42	4.8	0.0	360	12	56	30	0.0	0.0	65	--	322
				4.84	1.56	1.83	.12		5.00	.25	1.58	.48				503	27
				5A	19	22	1		72	3	19	6					
10S/14E-19R02 M 05/16/66 5000	71.4 F	--	312	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-20N02 M 05/10/66 5000	63.4 F	--	577	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10S/14E-22L01 M 05/20/66 5000	64.4 F	--	334	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAR SAMPLER	TEMP	PH	EC LAH FLO	CA	MG	NA	K	MILLIGRAMS PER LITER					MILLIGRAMS PER LITER									
									MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	T05 SUM	T4 NCH				
10S/14E-23001 M		69.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/11/66	5000			966																			
10S/14E-24801 M		67.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/11/66	5000			1002																			
10S/14E-26C02 M		69.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/11/66	5000			1456																			
10S/14E-26M01 M		68.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/11/66	5000			1050																			
10S/14E-31M01 M		65.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/66	5000			2001																			
10S/14E-31M01 M		--	8.3	1960	157	27	184	3.8	0.0	253	36	467	0.4	--	0.0	--	1360	505	--	--	--	--	--
05/31/66	5050			1881	743	222	8.1A	1.0	4.15	75	13.17	0.01	--	--	--	--	1003	298	--	--	--	--	--
1140	5050			43	12	45	1		23	4	73												
10S/14E-33J02 M		69.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/66	5000			396																			
10S/14E-33L01 M		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/16/66	5000			322																			
10S/14E-35K01 M		67.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/66	5000			921																			
10S/14E-36K01 M		69.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/16/66	5000			609																			
10S/15E-02F01 M		64.4 F	8.4	454	42	12	33	2.2	4.0	176	6.0	43	9.5	0.0	0.0	62	156	5	--	--	--	--	--
03/10/66	5000			2.10	.99	1.44	.06		.13	2.89	.12	1.21	.15				300						
5000				46	22	31	1		3	64	3	27	3										
10S/15E-02F01 M		69.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/20/66	5000			484																			

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB PLO	FC LAB PLO	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				TDS SUM	TH NCH
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	PERCENT REACTANCE VALUE			
10S/15E-03R02 M 04/20/66 5000	7.4 F	--	314	24	8.0	20	2.5	0.0	101	5.0	42	4.1	0.1	0.0	62	--	103		
				1.40	.66	.87	.06		1.66	.10	1.18	.07				221	20		
				.47	.22	.29	.2		.55	.3	.39	.2							
10S/15E-05J01 M 05/19/66 5000	6.6.1F	--	532	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-05L01 M 05/09/66 5000	--	--	186	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-06H02 M 03/09/66 5000	--	8.3	199	16	4.4	16	3.9	1.0	82	1.0	20	1.6	0.1	0.0	50	--	58		
				.80	.36	.70	.10	.03	1.34	.02	.56	.03			154	0			
				.41	.18	.36	.5	.2	.68	.1	.28	.2							
10S/15E-08J01 M 03/10/66 5000	7.0 F	8.2	214	18	4.6	17	2.7	0.0	84	0.0	22	1.7	0.0	0.0	57	--	64		
				.90	.38	.74	.07		1.38		.62	.03			164	0			
				.43	.18	.35	.3		.68		.31	.1							
10S/15E-09M02 M 05/19/66 5000	6.8.4F	--	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-12N01 M 05/09/66 5000	6.8.4F	--	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-13P01 M 05/19/66 5000	--	--	159	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-14A01 M 05/19/66 5000	--	--	269	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-14D01 M 05/19/66 5000	71.6F	--	411	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10S/15E-17H01 M 03/10/66 5000	6.6 F	8.4	493	54	9.8	29	2.0	4.0	177	10	53	7.9	0.0	0.0	58	--	185		
				2.89	.81	1.26	.05	.13	2.90	.21	1.49	.13			318	34			
				54	16	25	1	3	6.0	4	31	3							
10S/15E-20E01 M 03/10/66 5000	6.8 F	8.4	504	52	12	24	3.3	4.0	140	14	50	26	0.1	0.0	62	--	179		
				2.59	.99	1.22	.08	.13	2.30	.29	1.41	.42			320	56			
				53	20	25	2	3	51	6	31	9							

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER- DATE TIME	TEMP	PH	MINERAL CONSTITUENTS IN			MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TH			
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B		SI02	TDS	NCH
10S/15E-20J01 M 05/19/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					EC												
					LAR FLD												
					434												
10S/15E-23A01 M 03/10/66 5000	6.9 F	8.2	14 .70	4.1 .34	11 .48	1.5 .04	0.0	0.0	77 1.26	3.0 .06	5.9 .17	1.5 .02	0.5	0.0	63	--	92
			45	22	31	3			83	4	11	1				142	0
10S/15E-23A02 M 04/20/66 5000	6.0 F	3.2	14 .70	4.0 .33	13 .57	1.5 .04	0.0	0.0	0.0	1.05	6.5 .18	3.2 .05	0.2	0.0	59	--	52
			43	20	35	2				90	7	2				206	52
10S/15E-27003 M 05/10/66 5000	67.3 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					9R2												
10S/15E-32C01 M 05/10/66 5000	67.2 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					95B												
10S/15E-32J01 M 05/10/66 5000	66.2 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					5R3												
10S/15E-33A01 M 03/15/66 5000	--	6.2	73 3.64	18 1.48	4.0 1.74	4.0 .10	0.0	0.0	245 4.02	11 .23	89 2.51	11 .18	0.0	0.0	70	--	255
			52	21	25	1			58	3	36	3				436	54
10S/15E-33A01 M 03/11/66 5000	67 F	8.2	14 .90	2.9 .24	2.9 1.26	2.0 .05	0.0	0.0	0.93	2.0	23 .04	4.0 .65	0.5	0.0	28	--	57
			37	10	51	2			1.53	.67	2	29				155	0
10S/15E-34L01 M 05/19/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					104Q												
10S/15E-35A01 M 05/19/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					135												
10S/15E-36P01 M 05/19/66 5000	68.0 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					106I												
10S/15E-36P01 M 05/10/66 5000	70.4 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					439												

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	PH LAH FLD	TEMP LAH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO ₃	HCO ₃	CL	NO ₃	F	B	SI0 ₂	TDS SUM	TH NCH	
105/16E-01M01 M 05/11/66 5000	--	74.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
291																	
105/16E-04A01 M 05/16/66 5000	--	74 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
289																	
105/16E-05C02 M 03/10/66 5000	8.2	71 F	211	17 .85 42	3.8 .31 15	17 .74 36	5.0 .13 6	0.0 0.0 0.0	83 1.26 68	0.0 0.2 31	0.7 .01 1	0.1 0.0 0.0	0.0 0.0 0.0	72	--	178	58 0
105/16E-08E01 M 05/17/66 5000	--	70.8F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
330																	
105/16E-08H01 M 05/16/66 5000	--	71.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
281																	
105/16E-09E01 M 05/16/66 5000	--	71.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
274																	
105/16E-10J01 M 03/18/66 5000	8.4	--	245	21 1.05 44	6.5 .53 22	14 .74 33	1.5 .04 2	6.0 .20 8	85 1.39 57	4.0 .08 3	14 .23 9	0.1 0.0 0.0	0.0 0.0 0.0	55	--	188	79 0
105/16E-18002 M 05/17/66 5000	--	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
343																	
105/16E-21J01 M 05/16/66 5000	--	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
356																	
105/16E-21J01 M 05/16/66 5000	8.5	--	356	34 1.70 46	12 .99 27	22 .96 26	2.3 .06 2	5.0 .17 5	151 2.48 68	6.0 .12 3	19 .54 15	0.2 0.0 0.0	0.0 0.0 0.0	64	--	259	133 1
105/16E-22A01 M 05/16/66 5000	--	74 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
374																	
105/16E-32D01 M 05/17/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
532																	

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI02	SUM	TH	NCH			
10S/16E-34H01 M 03/19/66 5000	69 F	8.4	449	24	21	36	5.2	2.0	160	13	30	48	0.0	0.0	73	--	146				
				1.20	1.73	1.57	.13	.07	2.62	.27	.85	.77				331	12				
				26	37	34	3	2	57	6	19	17									
10S/17E-01D01 M 05/10/66 5000	--	--	248	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-03D01 M 03/10/66 5000	65.4F	--	241	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-04E01 M 03/10/66 5000	72.2F	--	251	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-04J01 M 03/10/66 5000	70.9F	--	235	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-05C01 M 06/20/66 5050	74.2F	7.6	319	26	6.6	27	3.6	0.0	112	8.1	34	5.0	0.0	0.0	--	256	92				
1215 5050		7.1	285	42	1.30	54	1.17	.09	1.84	.17	.96	.08				165	0				
				17	38	3			60	6	31	3									
10S/17E-05J01 M 03/10/66 5000	71.9F	--	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-06A01 M 05/11/66 5000	74.3F	--	311	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-08F01 M 05/11/66 5000	73.9F	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-12C02 M 05/10/66 5000	65.5F	--	264	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-14A01 M 05/10/66 5000	70.1F	--	246	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
10S/17E-21M01 M 05/11/66 5000	71.9F	--	281	--	--	--	--	--	--	--	--	--	--	--	--	--	--				

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAR FLO	EC LAR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	TOS	NH
105/17E-22K01 M 05/10/66 5000	77.2F	--	--	428	--	--	--	--	--	--	--	--	--	--	--	--	--
105/17E-25N01 M 05/10/66 5000	71.1F	--	--	251	--	--	--	--	--	--	--	--	--	--	--	--	--
105/17E-26R01 M 05/10/66 5000	64.8F	--	--	160	--	--	--	--	--	--	--	--	--	--	--	--	--
105/17E-27E01 M 05/11/66 5000	71.5F	--	--	268	--	--	--	--	--	--	--	--	--	--	--	--	--
105/17E-29D01 M 05/11/66 5000	72.8F	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--	--
105/17E-31N01 M 05/17/66 5000	--	--	--	402	--	--	--	--	--	--	--	--	--	--	--	--	--
105/18E-01R01 M 05/12/66 5000	73.4F	--	--	358	--	--	--	--	--	--	--	--	--	--	--	--	--
105/18E-01K01 M 05/12/66 5000	--	--	--	355	--	--	--	--	--	--	--	--	--	--	--	--	--
105/18E-08F01 M 03/29/66 5000	72 F	8.7	300	25	8.0	25	3.0	6.0	118	11	13	15	0.1	0.1	82	--	96
105/18E-08J01 M 05/12/66 5000	70.8F	--	700	41	.66	1.09	.08	.20	1.94	.23	.37	.24			246	0	
105/18E-08L M 05/12/66 5000	64.0F	--	553	21	21	35	3	7	85	8	12	8					
105/18E-09C01 M 05/12/66 5000	71.5F	--	314	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH	EC FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER								MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE								F	B	S102	TDS SUM	TH	MCH														
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	NO ₂	CO ₃	SO ₄	CL	NO ₃	NO ₂																					
105/18E-09K01 M 05/12/66 5000	71.4F	--	--	312	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
105/18E-14H01 M 05/12/66 5000	--	--	--	421	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
105/19E-20E01 M 05/14/66 5000	--	--	--	236	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
105/18E-20M02 M 05/12/66 5000	74.4F	--	--	268	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
105/18E-22H02 M 05/12/66 5000	75 F	--	--	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
105/18E-25P01 M 03/11/66 5000	63 F	8.1	137	10 .50 38	2.6 .21 16	13 .57 4.4	1.1 .03 2	0.0	53 .87 76	0.0	9.4 .27 23	0.0	0.4 .01 1	0.2	0.0	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36	0		
105/19E-10F01 M 05/19/66 5000	--	--	--	388	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
105/19E-17P01 M 05/13/66 5000	63.4F	--	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
105/20E-22N01 A 03/01/66 5000	69	8.6	368	37 1.85 47	14 1.15 29	19 .83 21	2.7 .07 2	12 .40 1.0	139 2.28 57	26 .27 7	13 .73 18	0.2	20 .32 8	0.2	0.7	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150	16		
105/20E-23M A 05/13/66 5000	--	--	--	318	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
105/20E-28K01 M 05/19/66 5000	--	--	--	328	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
105/20E-29H01 M 05/19/66 5000	--	--	--	386	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP FLD	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	SUM	TDS	TH	NCH				
10S/20E-31C01 M 03/01/66 5000 5000	57	9.0	589	50	19	41	8.0	32	130	10	89	18	0.2	0.1	31	--	203						
				2.50	1.56	1.78	.20	1.07	2.13	.21	2.51	.29				362	43						
				.41	.26	.29	.3	.17	.34	.3	.40	.5											
10S/20E-31C01 M 05/19/66 5000	64 F	--	653	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
10S/20E-32G01 M 05/19/66 5000	--	--	794	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
10S/20E-34E01 M 05/13/66 5000	--	--	398	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
10S/20E-34M01 M 05/13/66 5000	--	--	399	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
10S/20E-35P01 M 05/13/66 5000	--	--	465	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
11S/11E-12J01 M 04/01/66 5050 5050	--	8.8	3410	255	110	425	7.0	19	335	1460	169	0.9	--	3.3	--	2830	1020						
				12.72	9.04	18.69	.18	.63	5.89	30.37	4.77	.01				2613	785						
				.31	.22	.46		.2	.13	.74	.12												
11S/11E-23A01 M 03/23/66 5050 5050	--	8.3	14400	321	257	2950	1.72	0.0	196	3550	3120	0.0	--	12.0	--	10800	1860						
				15000	16.02	21.13	23.94	1.72	3.21	73.94	87.98					10273	1701						
				.10	.13	.74	.1		.2	.45	.53												
11S/11E-23A02 M 03/23/66 5050 5050	--	8.4	5770	246	108	928	7.4	10	163	1350	1090	2.1	--	4.7	--	4040	1060						
				5400	12.28	8.88	40.37	.19	.33	2.67	28.08	30.74	.03			3826	911						
				.20	.14	.65		.1	.4	.45	.50												
11S/11E-27G01 M 03/25/66 5050 5050	--	8.1	7760	579	212	1080	4.5	0.0	147	2730	1180	20	--	17.0	--	6380	2320						
				8000	24.89	17.43	46.94	.12	2.41	56.78	33.28	.32				5895	2201						
				.31	.19	.50			.3	.61	.36												
11S/12E-14K01 M 10/13/65 5050 1440 5050	74 F	8.3	3290	172	76	384	12	0.0	154	307	.802	1.1	--	0.6	--	2140	743						
				2800	8.54	6.25	16.70	.31	2.53	6.39	22.62	.02				1830	417						
				.27	.20	.52	.1		.8	.20	.72												
11S/12E-20E01 M 01/20/66 5050 5050	--	8.0	79800	497	2020	26500	41	0.0	372	35100	19400	180	--	93.0	--	86500	9550						
				79900	26.40	166.04	152.75	1.05	6.10	730.08	47.08	2.90				84013	9252						
				.2	.12	.46			.57	.43													

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	PH LAB FLD	EC LAB FLD	TEMP	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	8	S102
11S/12E-20E02 M 01/20/66 5050 5050	8.2	52400	497	1000	15300	30	0.0	354	23400	9400	510	80.0	--	50800	5370
	50000	24.80	82.0	665.55	.77	5.81	446.72	265.08	8.21	1	64	35	1	50390	5084
11S/12E-30H01 M 01/21/66 5050	8.0	27300	502	679	6760	23	0.0	371	11400	4730	3.1	145.0	--	25300	4050
	28200	25.05	55.81	294.06	.59	6.08	237.12	133.39	.05	2	63	35		24424	3749
11S/12E-31H01 M 01/25/66 5050	8.0	4200	566	123	394	5.4	0.0	124	2510	76	0.2	4.6	--	4160	1920
	3080	10.08	9.21	12.83	.07	1.89	12.07	16.55	1.18	6	38	52	4	1918	873
11S/13E-12P08 M 10/13/65 5050 1435	8.3	664	73	19	24	--	0.0	183	--	95	--	--	--	--	262
	780	3.64	1.60	1.04	--	3.00	2.68	--	--	--	--	--	--	--	112
11S/14E-03K01 M 05/11/66 5000	67 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/14E-04A01 M 05/11/66 5000	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/14E-06G01 M 05/11/66 5000	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/14E-07001 M 05/04/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/14E-07001 M 05/31/66 5050 1212	8.6	247	14	0.7	40	1.1	7.0	82	6.9	26	0.1	0.0	--	198	38
	268	.70	.06	1.74	.03	.23	1.34	.14	.73	9	55	6	30	136	0
11S/14E-07N02 M 03/15/66 5000	7.4	249	11	2.6	40	0.6	0.0	98	7.0	24	7.0	0.3	0.0	44	38
	5000	.55	.21	1.74	.02	1.61	.15	.68	.11	63	6	27	4	185	0
11S/14E-09F01 M 05/09/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LA-3 TIME SAMPLER	TEMP	PH	EC LAH PLO	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	MILLIGRAMS PER LITER				TDS	TH
													F	B	S102	SUM		
11S/14E-10001 M 05/09/66 5000	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/14E-12001 M 05/09/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/14E-15001 M 05/09/66 394	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/14E-16401 M 05/11/66 5000	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/14E-17C01 M 05/04/66 5000	66.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/14E-17P02 M 03/09/66 5000	70 F	8.2	270	15 .75 2R	1.8 .15 6	40 1.74 65	0.7 .02 1	0.0	96	7.0	26	9.8	0.3	0.0	51	--	45 199 0	
11S/14E-21N02 M 03/14/66 1015	66.2F	7.7	9210 R290	743 37.08	205 16.92	592 25.75	--	0.0	210 3.44	--	2960 83.47	--	--	--	--	--	2700 2530	
11S/14E-21P01 M 12/22/65 5702	--	7.2	--	311 15.53 47	78 6.42 19	253 11.01 33	--	0.0	168 2.76 9	69 1.45 5	978 27.60 87	--	--	.05	--	1868 1773	1103 986	
11S/14E-24R01 M 05/16/66 5000	69.3F	--	518	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/15E-02C01 M 03/18/66 5000	64 F	8.1	1170	137 6.84 56	34 2.79 23	53 2.31 19	7.6 .19 2	0.0	372	23	172	18	0.0	0.0	69	--	482 696 177	
11S/15E-05L01 M 05/10/66 5000	66 F	--	554	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/15E-06F01 M 05/11/66 5000	64 F	--	943	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLED	TEMP	PH	EC LHR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				TH		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TDS		NCH	
11S/15E-14601 M 05/11/66 5000	70.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-15K01 M 03/10/66 5000	68 F	6.6	409	42	10	32	2.7	10	185	7.0	22	5.8	0.9	0.0	68	--	146	0	0
11S/15E-15K01 M 05/11/66 5000	65.4F	--	274	44	19	32	2	.33	3.03	.15	.62	.09			291				
11S/15E-17K01 M 05/11/66 5000	70 F	--	528	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-23L01 M 05/11/66 5000	64 F	--	519	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-24W01 M 05/11/66 5000	67.4F	--	853	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-31G01 M 05/11/66 5000	64.2F	--	776	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-31J01 M 05/11/66 5000	68.7F	--	478	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/15E-35P01 M 05/11/66 5000	61 F	--	859	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-02E02 M 05/17/66 5000	71.2F	--	311	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-05K01 M 04/04/66 5000	--	8.6	366	22	15	32	3.1	9.0	145	12	22	18	0.0	0.0	80	--	116	0	0
11S/16E-06P01 M 05/21/66 5000	71.4F	--	361	1.10	1.23	1.39	.08	.30	2.38	.25	.62	.29			284				
				29	32	37	2	.8	62	7	16	.8							

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO ₃	HC0 ₃	S0 ₄	CL	NO ₃	F	B	SI0 ₂	TDS SUM	TH SUM
11S/16E-06P02 M 03/10/66 5000	67 F	8.6	774	87	24	44	4.9	22	325	19	54	18	0.0	0.0	68	--	315
				4.34	1.97	2.09	.13	.73	5.33	.40	1.52	.29				504	12
				51	23	25	2	9	64	5	18	4					
11S/16E-06P02 M 05/31/66 5050 1420 5000	--	8.2	874	96	27	44	5.2	0.0	365	24	67	45	--	0.0	--	558	353
				4.79	2.22	2.09	.13		5.99	.50	1.89	.72				491	54
				52	24	23	1		66	5	21	8					
11S/16E-08K01 M 05/17/66 5000	69 F	--	671	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-09J01 M 03/10/66 5000	69 F	8.3	495	33	17	40	3.8	3.0	209	12	28	21	0.0	0.1	73	--	163
				1.90	1.40	1.74	.10	.10	3.83	.25	.79	.34				338	0
				37	27	34	2	2	70	5	16	7					
11S/16E-11H01 M 05/17/66 5000	69.4F	--	379	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-11C01 M 05/17/66 5000	--	--	548	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-12L01 M 05/18/66 5000	71.6F	--	438	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-14F01 M 05/18/66 5000	66.4F	--	652	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-17R01 M 05/17/66 5000	--	--	552	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-23C01 M 05/18/66 5000	71.4F	--	251	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-23L01 M 05/31/66 5000	68.4F	--	466	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/16E-24C02 M 05/18/66 5000	66 F	8.0	555	50	25	28	4.1	0.0	249	14	27	38	0.0	0.0	58	--	227
				683	2.50	2.06	1.22	.10	4.08	.40	.76	.61				371	23
				43	35	21	2		70	7	13	10					

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLED	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER			TDS SUM	TH	NCH							
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	R	SIO ₂											
11S/16E-20A01 M 05/18/66	66.4F	--	--	590	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5000																										
11S/16E-27R02 M 05/31/66	68.4F	7.6	263	283	19	6.7	24	2.8	0.0	1.00	6.1	22	3.8	--	0.0	--	0.0	--	301	75						
5050					.95	.55	1.04	.07		1.64	.13	.62	.06						133	0						
1145					36	21	4.0	.3		.67	.5	.25	.2													
11S/16E-28C02 M 05/18/66	70.4F	--	--	271	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/16E-29K01 M 03/10/66	68 F	8.6	433	1.10	22	18	40	4.1	1.6	1.42	21	34	1.0	0.2	0.0	84	--	319	129	0						
5000					.25	.33	.39	.2	.53	2.33	.44	.96	.16													
5000																										
11S/16E-34K02 M 03/07/66	74 F	8.2	201	.65	13	3.8	22	1.8	0.0	.82	1.0	20	1.9	0.2	0.0	67	--	171	48	0						
5000					.33	.16	.49	.3		1.34	.02	.56	.03													
11S/17E-04J01 M 05/18/66	71 F	--	--	284	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-09D01 M 05/18/66	71 F	--	--	268	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-10H01 M 05/18/66	--	--	--	223	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-10R01 M 05/18/66	--	--	--	264	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-11P01 M 05/18/66	--	--	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-12F01 M 05/10/66	72.2F	--	--	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5000																										
11S/17E-20A01 M 03/18/66	63 F	7.7	126	.55	11	2.1	1.0	1.5	0.0	.56	2.0	4.6	0.9	0.0	0.0	21	--	85	36	0						
5000					.46	.17	.44	.04		.92	.04	.24	.01													
5000					.46	14	37	3		.76	.3	.20	.1													

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLED	TEMP FLO	PH LOH FLO	EC LAH FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TH NCH	
11S/17E-21K01 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-22A01 M 05/18/66 5000	65 F	--	303	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-23001 M 05/18/66 5000	64.5 F	--	288	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-23001 A 05/25/66 0745 5050	--	8.2	267 259	4.0 .20	6.3 .52	--	--	0.0	1.18	--	16	1.94	.45	--	--	86	0
11S/17E-25P01 M 05/11/66 5000	70.4 F	--	340	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-25P01 M 05/25/66 1100 5050	--	8.4	393 371	34 1.70	16 1.32	--	--	5.0	157	--	32	2.57	.90	--	--	151	14
11S/17E-26A02 M 05/25/66 0820 5050	--	8.0	564 536	44 2.20	20 1.64	--	--	0.0	197	--	33	3.23	.93	--	--	193	32
11S/17E-26001 M 05/25/66 0330 5050	--	8.5	1940 973	91 4.54	15 1.23	--	--	20	430	--	92	7.05	2.59	--	--	291	0
11S/17E-26A01 M 05/24/66 0915 5050	--	8.7	410 779	40 3.99	12 .99	--	--	38	289	--	75	4.08	2.12	--	--	288	0
11S/17E-26J02 M 05/26/66 0845 5050	--	8.6	617 597	58 2.89	15 1.23	--	--	11	204	--	71	2.00	2.00	--	--	295	19
11S/17E-26001 M 05/25/66 1200 5050	--	8.7	600 579	65 3.24	16 1.32	--	--	20	288	--	41	4.07	1.16	--	--	229	0
11S/17E-26002 M 05/25/66 1220 5050	--	8.7	762 743	92 4.59	13 1.07	--	--	26	326	--	56	5.35	1.58	--	--	282	0

TABLE E-2

STATE WELL NUMBER DATE TIME LAB SAMPLE	TEMP	PH LAR FLD	MINERAL CONSTITUENTS IN			MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER TDS SUM				
			CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	TOS	TH
115/17E-26003 M 05/26/66 5050 0900 5050	--	8.6	569 541	52 1.40	17 --	--	17 .57	210 3.44	--	44 1.24	--	--	--	--	--	201 1
115/17E-27A01 M 05/25/66 5050 0900 5050	--	8.6	1310 1250	142 7.09	13 1.07	--	--	26 .87	419 6.87	174 4.91	--	--	--	--	--	408 21
115/17E-27A03 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
115/17E-27A03 M 05/25/66 5050 0910 5050	--	8.3	1310 1230	152 7.54	11 .90	--	0.0 8.04	490 8.04	--	171 4.82	--	--	--	--	--	424 22
115/17E-27H01 M 05/25/66 5050 0930 5050	--	8.6	604 581	61 3.04	19 1.56	--	--	19 .63	248 4.07	39 1.10	--	--	--	--	--	231 0
115/17E-27C01 M 05/18/66 5000	67.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
115/17E-27H01 M 04/20/66 5000 5000	--	7.7	799 3.74	75 1.64	56 2.44	11 .28	0.0 4.69	286 5.50	24 6	80 2.26	22 .35	0.0 6	0.1 29	69 4	--	270 36
115/17E-27H01 M 05/25/66 5050 0950 5050	--	8.3	903 765	80 3.09	19 1.56	--	0.0 4.81	293 4.81	--	81 2.28	--	--	--	--	--	279 39
115/17E-27H03 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
115/17E-27H03 M 05/25/66 5050 1000 5050	--	8.2	729 689	58 2.89	16 1.32	--	0.0 3.76	229 3.76	--	72 2.03	--	--	--	--	--	210 22
115/17E-27J01 M 05/18/66 5000	66.4F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
115/17E-27J01 M 05/25/66 5050 1020 5050	--	8.5	760 727	64 3.19	17 1.40	--	12 .40	237 3.89	--	80 2.26	--	--	--	--	--	228 14

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH	LGR FLD	EC LGR FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	MILLIGRAMS PER LITER				TDS SUM	TH NCH
													NO ₃	F	B	S102		
11S/17E-27N01 M 05/18/66 5000	64.4 F	--	--	521	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-33N01 M 05/18/66 5000	66.4 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-35A01 M 05/11/66 5000	70.4 F	--	--	530	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-35A01 M 05/26/66 5050 0800 5050	--	8.6	554 541	58 2,489	12 .99	--	--	--	16 .53	232 3,180	--	35 .99	--	--	--	--	195 0	0
11S/17E-35A02 M 05/11/66 5000	73.4 F	--	--	198	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-35A02 M 05/26/66 5050 0805 5050	--	8.3	192 201	15 .75	4.8 .39	--	--	--	0.0 1.34	82	--	16 .45	--	--	--	--	57 0	0
11S/17E-35A03 M 05/24/66 5050 0810 5050	--	8.2	194 194	14 .90	3.2 .26	--	--	--	0.0	78	--	17 .48	--	--	--	--	58 0	0
11S/17E-35H01 M 05/25/66 5050 1300 5050	--	8.5	392 379	35 1.40	1.3 1.07	--	--	--	11 .37	144 2,336	--	30 .85	--	--	--	--	145 9	0
11S/17E-35C02 M 05/25/66 5050 1230 5050	--	8.7	564 544	59 2.94	22 1.81	--	--	--	0.0	265 4,335	--	40 1.13	--	--	--	--	238 21	0
11S/17E-35F03 M 05/25/66 5050 1345 5050	--	8.1	440 437	43 2.15	21 1.73	--	--	--	0.0	207 3,339	--	26 .73	--	--	--	--	192 23	0
11S/17E-35J01 M 05/25/66 5050 1450 5050	--	8.3	188 194	17 .45	2.3 .19	--	--	--	0.0	79 1,330	--	17 .48	--	--	--	--	52 0	0
11S/17E-35J02 M 05/25/66 5050 1430 5050	--	8.4	199 205	15 .75	5.2 .43	--	--	--	3.0 .10	82 1,334	--	16 .45	--	--	--	--	59 0	0

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP FLD	PH LAB FLD	FC LAR FLD	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				F	B	SIO2	SUM	TDS TH	NCH
								CO3	HC03	CL	NO3						
11S/17E-35J03 M 05/25/66 5050 1440 5050	--	8.2	197	15	4.3	--	--	0.0	80	--	16	--	--	--	--	55	0
11S/17E-35K01 M 05/18/66 5000	72.6F	--	234	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/17E-35K01 M 08/05/66 5050 1500 5050	--	7.9	192	15	3.5	--	--	0.0	78	--	19	0.9	--	--	--	52	0
11S/17E-35K03 M 05/25/66 5050 1355 5050	--	8.5	459	43	16	--	--	10	176	--	36	--	--	--	--	173	12
11S/17E-35L01 M 05/25/66 5050 1335 5050	--	8.5	355	35	10	--	--	6.0	158	--	19	--	--	--	--	129	0
11S/17E-35M01 M 05/25/66 5050 1320 5050	--	8.5	483	48	15	--	--	10	176	--	36	--	--	--	--	180	19
11S/17E-35R01 M 05/26/66 5050 1130 5050	--	8.3	200	15	4.8	--	--	0.0	80	--	19	--	--	--	--	57	0
11S/17E-36E01 M 05/26/66 5050 0825 5050	--	8.5	561	60	14	--	--	10	235	--	44	--	--	--	--	208	0
11S/18E-03D01 M 05/13/66 5000	69.2F	--	252	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-03P01 M 05/13/66 5000	--	--	603	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-08J01 M 05/13/66 5000	64 F	--	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-09G01 M 03/01/66 5000	64 F	8.8	307	21	6.0	35	1.3	13	90	11	33	0.1	0.2	0.2	33	--	77
				1.05	.69	1.52	.03	.43	1.48	.23	.93				198	0	
				34	16	42	1	14	44	7	30						

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	TEMP	PH	EC L/R FLD	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER												
								CO ₂	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TDS SUM	TH	NCH					
11S/18E-10001 M 05/13/66 5000	--	--	341	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/18E-13901 M 05/18/66 5000	--	--	218	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-17801 M 05/16/66 5000	--	--	261	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-20001 M 05/16/66 5000	71.2F	--	264	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-21E01 M 05/16/66 5000	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-27C01 M 05/16/66 5000	74 F	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-28M01 M 05/16/66 5000	--	--	237	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-33J01 M 05/16/66 5000	--	--	291	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-34D01 M 05/16/66 5000	71.4F	--	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/18E-36L01 M 05/16/66 5000	72.4F	--	229	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-07G01 M 03/11/66 5000	64 F	8.5	251	23	6.5	19	2.1	8.0	111	6.0	13	8.3	0.2	0.1	49	190	84							
				1.15	.53	.83	.05	.27	1.82	.12	.37	.13												
				.45	.21	.32	.2	1.0	.67	.4	.16	.5												
11S/19F-10001 M 04/20/66 5000	--	7.0	231	15	6.7	21	3.5	0.0	90	5.0	16	19	0.3	0.0	71	202	65							
				.75	.55	.91	.09		1.48	.10	.45	.31												
				.33	.24	.40	.4		.63	.4	.19	.13												

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLO	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	SUM	TDS	TH
11S/19E-17001 M 05/18/66 5000	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-19601 M 05/18/66 5000	73.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19F-19602 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-21R M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-21K01 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-26F01 M 05/18/66 5000	73.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-27A01 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-28P01 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-33J01 M 05/18/66 5000	74.8F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-34N01 M 05/18/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/19E-34L01 M 05/18/66 5000	75.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11S/20E-04C01 M 05/13/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE LAH SAMPLER TIME	TEMP FLD	PH LAH FLD	EC LAH FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER PERCENT REACTANCE						MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	TDS SUM	TH NCH									
11S/20E-04K01 M 05/13/66 5000	--	--	--	337	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11S/20E-11G01 M 05/10/66 5000	67.0F	--	--	332	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/20E-19P01 M 03/01/66 5000	--	8.0	144	--	9.0	3.0	12	4.6	0.0	0.0	4.8	0.0	6.0	16	0.2	0.8	71	--	--	--	--	--	--	35	0	
11S/20E-23M01 M 03/01/66 5000	59 F	9.2	229	--	19	8.2	16	1.2	76	47	7.0	15	7.9	0.2	0.0	35	--	--	--	--	--	--	--	159	0	
11S/20E-28K01 M 05/16/66 5000	--	--	161	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/20E-29R01 M 03/01/66 5000	--	7.4	121	--	7.8	2.7	10	3.1	0.0	36	0.0	5.0	5.0	10	0.2	0.4	73	--	--	--	--	--	--	130	1	
11S/20E-31A01 M 05/16/66 5000	73.4F	--	141	--	35	19	39	7	66	66	16	18	--	--	--	--	--	--	--	--	--	--	--	--	--	
11S/20E-31P01 M 03/01/66 5000	--	7.9	178	--	11	4.6	15	3.8	0.0	57	5.0	11	12	0.2	0.0	72	--	--	--	--	--	--	--	46	0	
11S/20E-32R01 M 05/16/66 5000	--	--	207	--	55	38	65	10	6	61	7	20	12	--	--	--	--	--	--	--	--	--	--	163	0	
12S/11E-14A01 M 10/14/65 1440	--	8.2	2400	2500	707	66	249	3.0	0.0	1.40	495	524	46	74	3.9	--	--	--	--	--	--	--	1990	787	2203	673
12S/11E-25O01 M 10/15/65 0820	--	8.3	2640	2350	6.07	62	351	3.4	0.0	2.47	12.31	11.76	1.0	0.02	3.7	--	--	--	--	--	--	--	1800	562	1638	419
12S/12E-17E01 M 10/18/65 111A	--	8.6	1540	1360	2.44	26	243	4.1	10	3.3	3.21	4.70	2.3	0.08	2.4	--	--	--	--	--	--	--	998	748	932	71

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER			TDS SUM	TH NCH	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02				
125/12E-25J02 M 10/20/65 5050 0930	--	8.7	1310	21	8.0	255	2.6	20	289	282	63	3.1	--	0.4	--	--	890	86	
			1174	1.05	.66	11.09	.07	.67	4.74	5.47	1.78	.05					797	0	
125/12E-30E01 M 10/15/65 5050 1030	69 F	8.4	1560	43	24	254	--	4.0	186	--	88	--	--	--	--	--	--	208	49
			1380	2.15	2.01	11.22	--	.13	3.05	--	2.48	--							
125/12E-31M01 M 10/15/65 5050 0955	72 F	8.5	2130	66	46	326	2.9	12	175	599	199	0.9	--	3.2	--	--	1420	354	
			1850	3.29	3.78	14.14	.07	.40	2.87	12.46	5.81	.01					1341	191	
125/12E-34P01 V 10/20/65 5050 1015	93 F	8.5	2380	57	16	448	4.0	6.0	150	709	208	2.2	--	2.2	--	--	1880	208	
			2000	2.84	1.32	19.49	.10	.20	2.46	14.75	5.87	.04					1526	75	
125/14E-03M01 M 05/04/66 5000	66.1 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			6295																
125/14E-04J02 M 05/04/66 5000	66.6 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			4896																
125/14E-09801 M 05/04/66 5000	--	--	1040	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/14E-10N01 M 05/04/66 5000	66.2 F	--	3060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/14E-17802 M 05/04/66 5000	65.0 F	--	403	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/14E-21M01 M 04/04/66 5000	64 F	8.4	256	7.0	3.3	43	0.8	2.0	99	15	20	1.2	0.4	0.1	37	--	31	0	
				.35	.27	1.87	.02	.07	1.62	.31	.56	.02					178		
125/14E-21M01 M 05/04/66 5000	64.6 F	--	206	14	11	75	1	3	63	12	22	1	--	--	--	--	--	--	
			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/14E-24G01 M 05/09/66 5000	69 F	--	1196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	P4 LDR FLD	TEMP	FC LAR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TDS	TH	NCH	
				CA	MG	NA	K	CO ₃	CO ₂	HCO ₃	SO ₄	CL	NO ₃	F	B				SI0 ₂
12S/14E-25M11 M 05/09/66	--	67 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			1050																
12S/14E-26G01 M 05/09/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			1238																
12S/14E-27J02 M 05/04/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			834																
12S/14E-27M11 M 03/07/66	--	64 F	197	0.4 0.4	0.0	44 2.00	0.3 .01	0.0	0.0	76 1.25	8.0 .17	19 .54	0.2 0.2	0.0	0.0	39	--	--	2
			5000			94				64	9	28				131			0
12S/14E-28E01 M 06/14/66	--	7.2	--	51 2.55	12 1.04	34 1.67	--	0.0	110	22 1.40	42 .46	0.0 1.20	--	0.0	--	22	234	90	
			5207	44	20	32			52	13	55					283		1	
12S/14E-28E02 M 06/14/66	--	7.2	--	1.09 22	1.45 30	2.36 44	--	0.0	110	52 1.80	70 1.10	0.0 2.00	--	0.0	--	--	302	127	36
			5207						37	22	41					271			
12S/14E-28E02 M 09/29/66	--	--	--	--	--	--	--	--	--	--	52	--	--	--	--	--	308	--	--
			5040						1.08										
12S/14E-34J01 M 07/26/66	--	6.0	463	7.9 4.39	2.7 .23	79 3.44	--	0.0	123	--	46	--	--	--	--	--	--	31	0
			5050						2.02		1.30								
12S/14E-34J03 M 07/26/66	--	6.0	420	6.1 3.95	2.4 .20	77 3.35	1.2 .03	0.0	132	26 2.16	45 .54	0.0 1.27	--	0.2	--	--	291	25	0
			5950	8	5	86	1		54	14	32						223		
12S/14E-35L01 M 07/26/66	--	7.8	381	1.8 3.55	0.5 .04	73 3.13	--	0.0	99	--	43	--	--	--	--	--	--	6	0
			5050						1.62		1.21								
12S/14E-35M01 M 05/04/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			367																
12S/14E-35M02 M 08/02/66	--	7.4	561	26 1.30	11 .90	64 2.84	--	0.0	112	--	80	--	--	--	--	--	--	110	18
			5050						1.84		2.26								

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER										TDS SUM
								MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER	PERCENT REACTANCE VALUE	NO3	F	R	S102	TH	NCH			
								CO3	PCO3	SO4	CL	NO3	F	R	S102	TH	NCH	
12S/14E-35M02 M 08/02/66 5050 1205	--	8.1	540	22	9.7	74	3.4	0.0	142	27	74	3.4	--	0.2	--	288	95	
				1.10	.80	3.22	.09		2.33	.56	2.09	.05				283	0	
				21	15	62	2		46	11	42	1						
12S/14E-35M03 M 08/02/66 5050 1200	--	7.6	379	13	7.2	50	--	0.0	114	--	41	--	--	--	--	--	62	
				.65	.59	2.18	--		1.87	--	1.16	--					0	
12S/14E-35M03 M 08/02/66 5050 1205	--	8.0	366	13	6.1	51	3.1	0.0	109	21	40	1.8	--	0.2	--	191	55	
				.65	.50	2.22	.08		1.79	.44	1.13	.03				190	0	
				19	14	64	2		53	13	33	1						
12S/14E-35M04 M 07/22/66 5050 5050	--	8.2	364	1.9	0.9	74	--	0.0	137	--	29	--	--	--	--	--	8	
				.345	.09	.08	3.22		2.25	--	.82	--					0	
12S/14E-35N01 M 07/26/66 5050 5050	--	8.0	303	4.0	1.4	58	--	0.0	104	--	28	--	--	--	--	--	16	
				.20	.12	2.52	--		1.71	--	.79	--					0	
12S/14E-36N01 M 05/04/66 5000	67.6F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/15E-02A02 M 05/10/66 5000	68.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/15E-04K02 M 05/10/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/15E-09J01 M 05/10/66 5000	67.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/15E-11J01 M 03/10/66 5000	68 F	8.2	639	25	13	88	2.5	0.0	208	19	92	1.4	0.2	0.1	62	--	116	
				1.25	1.07	3.83	.06		3.41	.40	2.59	.02				405	0	
				20	17	62	1		53	6	40							
12S/15E-11J01 M 05/10/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/15E-17E01 M 05/10/66 5000	67.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	L-3 SAMPLE	TEMP	PH	FC L/S FLD	CA	MG	NA	K	MILLIGRAMS PER LITER						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE															
									CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	5102	TDS	TH	SUM	NCH										
125/15E-20L01 M 05/10/66	5000	49 F	--	--	401	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
125/15E-23P01 M 05/12/66	5000	--	--	--	236	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
125/15E-24F01 M 05/12/66	5000	71 F	--	--	298	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
125/15E-27G01 M 05/12/66	5000	49 F	--	--	434	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
125/15E-27L01 M 05/13/66	5000	--	--	--	724	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
125/15E-30F01 M 05/20/66	5000	60.4 F	--	--	810	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
125/15E-31H02 M 05/09/66	5000	64 F	--	--	1373	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
125/15E-32C01 M 05/12/66	5000	61 F	--	--	630	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
125/15E-32C02 M 05/12/66	5000	--	--	--	398	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/15E-33F01 M 05/13/66	5000	67.6 F	--	--	562	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/15E-34G01 M 05/09/66	5000	71 F	--	--	346	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/15E-36J01 M 05/12/66	5000	60 F	--	--	586	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP F	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CL	MILLIGRAMS PER LITER						MILLIGRAMS PER LITER TDS TH SUI2			
									CO ₃	HCO ₃	SO ₄	CL	N03	F		H	SIO ₂	
12S/16E-01J01 M 05/09/66	69 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			370															
12S/16E-02N01 M 04/06/66	--	8.7	191	15	3.8	19	2.7	6.0	72	1.0	16	8.0	0.1	0.0	67	--	53	0
				.75	.31	.83	.07	.20	1.18	.02	.45	.13				174		
				38	16	42	4	10	60	1	23	7						
12S/16E-05E01 M 05/09/66	65 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			191															
12S/16E-06G01 M 05/09/66	67 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			514															
12S/16E-12L01 M 05/09/66	68 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			302															
12S/16E-13O01 M 05/09/66	68 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			224															
12S/16E-13H01 M 05/09/66	70 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			222															
12S/16E-17D01 M 04/20/66	69 F	7.5	266	23	5.5	23	0.7	0.0	1.08	7.0	22	3.6	0.1	0.0	62	--	60	0
				1.15	.85	1.00	.02		1.27	.15	.62	.06				200		
				44	17	38	1		.68	6	24	2						
12S/16E-17R02 M 05/09/66	68 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			331															
12S/16E-24J02 M 05/09/66	68 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			347															
12S/16E-25N01 M 05/09/66	68 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			346															
12S/16E-25R01 M 05/09/66	70 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			477															

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER			
				CA	MG	NA	K	CO ₃	HCO ₃	CL	NO ₃	F	B	SI0 ₂	TDS	TH	NCH				
125/16E-31A01 M 03/29/66 5000	70 F	8.8	273	20 1.00 35	4.1 .34 12	34 1.48 51	2.4 .06 2	14 .47 1.6	112 1.84 6.3	5.0 .10 3	15 .42 14	5.6 .09 3	0.1 0.1	0.1	86	-- 241	67 0				
125/16E-36L02 M 05/09/66 5000	67 F	--	417	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-01E01 M 05/26/66 5050 1020 5050	--	8.6	482 464	41 2.05	1.3 1.07	--	--	9.0 .30	162 2.66	--	27 .76	--	--	--	--	--	154 6				
125/17E-02C01 M 05/26/66 5050 1105 5050	--	8.5	310 332	27 1.35	6.4 .53	--	--	10 .33	107 1.75	--	27 .76	--	--	--	--	--	94 0				
125/17E-03A01 M 05/26/66 5050 1045 5050	--	8.7	425 436	41 2.05	1.3 1.07	--	--	10 .33	169 2.77	--	18 .51	--	--	--	--	--	154 0				
125/17E-03H01 M 05/10/66 5000	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-03O01 M 05/10/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-05L01 M 05/10/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-10F01 M 05/10/66 5000	67 F	--	548	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-10F01 M 05/10/66 5000	67 F	8.4	609	49 2.45 39	20 1.64 26	48 2.09 33	6.8 .17 3	6.0 .20 3	224 3.67 58	52 1.08 17	45 1.27 20	5.7 .09 1	0.1	0.0	63	-- 405	204 11				
125/17E-11H01 M 05/11/66 5000	68 F	--	464	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
125/17E-11J01 M 05/11/66 5000	65 F	--	219	--	--	--	--	--	--	--	--	--	--	--	--	--	--				

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLD	PH FLD	EC LAR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER			TDS SUM	TH NCH	
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	SUM				
12S/17E-15E01 M 03/19/66 5000	68 F	7.5	206	15 .75 36	5.5 .45 22	19 .83 40	2.2 .06 3	0.0	98	2.0	15	1.9	0.0	0.0	0.0	65	--	174	60	0
12S/17E-16L01 M 05/10/66 5000	67 F	--	202	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-20P01 M 03/19/66 5000	69 F	7.8	489	46 2.30 45	17 1.40 27	30 1.31 26	4.3 .11 2	0.0	224	21	30	13	0.3	0.0	70	--	341	185	2	2
12S/17E-23P01 M 02/24/66 5000	64 F	8.7	654	72 3.59 51	25 2.06 29	31 1.35 19	2.7 .07 1	22 .73 11	227	52	34	24	0.1	0.9	52	--	427	282	60	6
12S/17E-24L01 M 05/10/66 5000	67 F	--	343	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-24P01 M 05/10/66 5000	67 F	--	515	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-24P01 M 05/10/66 5000	67 F	--	555	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-31001 M 05/09/66 5000	61 F	--	241	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-31F02 M 05/09/66 5000	66 F	--	991	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-34G01 M 05/09/66 5000	--	--	792	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/17E-36K01 M 05/09/66 5000	--	--	612	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/19E-01N01 M 05/12/66 5000	71 F	--	369	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP F	PH		MINERAL CONSTITUENTS IN MG				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS						
		LAR FLD	FLD	CA	MG	NA	K	CO3	HCO3	504	CL	NO3	F	B	SI02	SUM	TH	NCH
125/18E-05A01 M 05/11/66	68 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		234																
125/18E-05H01 M 05/11/66	68 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		270																
125/18E-06C01 M 05/11/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		477																
125/18E-06D01 M 05/11/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		790																
125/18E-09D01 M 05/11/66	64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		314																
125/18E-10D01 M 05/12/66	64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		422																
125/18E-12N01 M 05/12/66	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		350																
125/18E-16J01 M 05/11/66	64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		279																
125/18E-19A01 M 05/11/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		614																
125/18E-19J01 M 05/11/66	69 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		204																
125/18E-20J01 M 03/29/66	--	8.2	163	11	4.3	14	2.8	0.0	52	2.1	4.7	26	0.0	0.0	70	--	45	
5000				.55	.35	.61	.07		.45	.04	.25	.22			164		3	
5000				37	22	39	4		54		16	27						
125/18E-24A01 M 05/12/66	71 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5000		414																

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER														
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	TDS SUM	TH	NCH														
12S/18E-24L01 M 05/12/66 5000	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
12S/18E-25N01 M 05/11/66 5000	74 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
12S/18E-26K01 M 03/07/66 5000	69 F	8.7	706	58 2.89 41	24 1.97 28	65 1.94 28	9.0 .23 3	15 .50 7	156 2.56 38	23 .53 9	88 2.48 37	35 .56 8	0.2	0.4	76	455	243	90	--	--	--	--	--	--	--	--	--					
12S/18E-27A01 M 05/11/66 5000	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
12S/18E-30J01 M 05/11/66 5000	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
12S/18E-32P01 M 05/11/66 5000	69 F	--	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
12S/19E-33D01 M 05/11/66 5000	70 F	--	736	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
12S/19E-01M02 M 05/12/66 5000	74 F	--	206	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12S/19E-08P01 M 05/12/66 5000	71 F	--	261	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12S/19E-11J01 M 05/12/66 5000	71 F	--	194	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/19E-12K01 M 05/12/66 5000	72 F	--	212	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12S/19E-13A01 M 03/01/66 5000	--	6.5	428	27 1.35 33	11 .90 22	39 1.70 41	7.0 .18 4	7.0 .23 4	117 1.92 52	17 .35 9	20 .56 15	39 .63 17	0.2	1.0	77	303	112	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATION NUMBER DATE TIME	TEMP F	PH	EC µM	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER							TH NCH		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B		SIO ₂	TDS SUM
125/19E-13A02 M 05/12/66 5000	70 F	--	450	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-14A01 M 05/12/66 5000	74 F	--	202	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-14P01 M 05/12/66 5000	71 F	--	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-19A01 M 05/12/66 5000	72 F	--	326	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-20L01 M 05/12/66 5000	72 F	--	311	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-21A01 M 05/12/66 5000	77 F	--	219	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-25E01 M 05/12/66 5000	65 F	--	221	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-25F01 M 05/12/66 5000	66 F	--	204	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125/19E-28A01 M 03/29/66 5000	70 F	8.7	709	45	20	77	9.5	16	246	31	61	29	0.2	0.1	69	195	0
125/19E-29A01 M 05/12/66 5000	72 F	--	371	2.25	1.64	3.35	.24	.53	4.03	.64	1.72	.87			478	0	
125/19E-29B01 M 05/12/66 5000	72 F	--	206	30	22	45	3	7	55	9	23	6					
125/19E-30A01 M 03/29/66 5000	72 F	8.6	200	14	4.9	17	3.9	7.0	79	1.0	10	28	0.1	0.0	85	55	0
125/19E-32A01 M 05/12/66 5000	70 F	--	206	.70	.40	.74	.10	.23	1.30	.02	.28	.45			210	0	
				36	21	34	5	10	57	1	12	20					

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL DATE TIME	WELL NAME	TEMP	PH	EC LAB FLD	CA	MG	NA	K	CO ₂	HCO ₃	SO ₄	CL	MILLIGRAMS PER LITER		NO ₃	F	B	S102	TDS SUM	TH	NCH		
													MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER	MILLIGRAMS PER LITER									
12S/20C-04M01	M	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/13/66	5000			201																			
12S/20C-07P01	M	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			213																			
12S/20C-04L01	M	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			192																			
12S/20C-08M01	M	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			219																			
12S/20C-09F01	M	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13/66	5000			174																			
12S/20C-14M01	M	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			200																			
12S/20C-30F01	M	--	6.2	156	13	4.1	12	2.1	0.0	7.4	0.0	7.4	0.0	6.0	1.6	0.1	0.0	21	--	96	50	0	
03/01/66	5000				65	34	52	05		1.21		86		17	03								
05/01/66	5000				42	22	33	3						12	2								
12S/20C-30F01	M	65 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			205																			
12S/20C-30K01	M	65 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/66	5000			347																			
12S/12E-22N01	M	--	6.5	1650	66	41	220	3.3	8.0	161	467	129	3.9	3.9	3.9	2.7	--	--	--	1140	335		
10/20/65	5050			1840	3.29	3.37	9.57	0.08	.27	2.64	9.71	3.64	.06	.06	.06					1020	190		
05/05/66	5050				20	21	59		2	16	59	22											
12S/12E-26M01	M	60 F	6.5	2060	40	19	384	3.9	8.0	146	657	137	5.4	5.4	5.4	2.5	--	--	--	1390	178		
10/20/65	5050			1900	2.07	1.56	16.70	.10	.27	2.39	13.67	3.86	.09	.09	.09					1328	45		
1000	5050				10	8	82		1	12	67	19											
12S/12E-34M02	M	--	6.3	2840	178	159	242	5.9	0.0	157	1090	219	50	50	50	2.0	--	--	--	2000	1100		
10/20/65	5050			2450	9.84	13.07	10.53	.15		2.57	22.67	6.15	.81	.81	.81					2022	972		
1730	5050				27	40	32			8	70	19											

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLD	PH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TDS SUM	TM NCH
				CA	MG	NA	K	C03	HC03	SO4	CL	N03	F	B	S102		
135/13C-13N01 M 10/20/65 5050	--	8.4	4390 3400	319 15.92	259 21.27	448 19.49	--	8.0 .27	151 2.48	--	322 9.08	--	--	--	--	--	1860 1724
135/13C-2000P M 10/20/65 5050	--	8.6	3740 3200	52 2.59	12 1.02	722 31.41	--	10 .33	149 3.10	--	766 21.60	--	--	--	--	--	181 10
135/14E-01L01 M 03/07/66 5000	64 F	8.3	294	3.2 .14 5	1.0 .08 3	66 2.87 92	0.5 0.1	2.0 .07	114 1.87	12 .25	28 .79	0.1	0.3	0.0	54	--	12 223
135/14E-15001 M 10/20/65 5050	70 F	8.5	2330 2000	32 1.60	4.9 .40	455 19.79	--	6.0 .20	141 2.97	--	258 7.28	--	--	--	--	--	100 0
135/14E-21N04 M 09/01/66 1330 5050	--	8.0	3480	249 14.42	235 19.37	264 11.66	--	0.0	132 2.16	--	227 6.40	--	--	--	--	--	1690 1583
135/15E-01N21 M 03/20/66 1300 5050	64 F	8.1	1860	146 7.29 42	24 2.20 13	174 7.66 44	3.8 0.1	0.0	229 3.06 22	110 2.29 13	390 11.00 64	2.7 0.04	--	0.2	--	1210 969	482 296
135/15E-01N01 M 05/12/66 5000	64 F	--	2193	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-02K01 M 05/09/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-020 M 05/09/66 5000	71 F	--	432	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-04G01 M 05/09/66 5000	70 F	--	619	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-05C01 M 05/09/66 5000	70 F	--	1404	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-05001 M 05/04/66 5000	68.2F	--	1045	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH L49 FLD	EC LAR FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER					NO3	F	B	S102	MILLIGRAMS PER LITER TDS SUM	TH NCH
								CO3	HCO3	SO4	CL	NO3						
135/15E-06C01 M 05/16/66 5000	67 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-06D01 M 05/04/66 5000	--	--	1530	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-08A01 M 05/04/66 5000	69.2 F	--	842	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-09E02 M 05/04/66 5000	67.4 F	--	676	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-09M01 M 05/16/66 5000	67.8 F	--	495	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-11F01 M 05/13/66 5000	69.4 F	--	478	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-11P01 M 05/13/66 5000	66.4 F	--	648	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-14E01 M 05/13/66 5000	68.7 F	--	724	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-14P01 M 05/13/66 5000	69.3 F	--	382	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-16R01 M 05/16/66 5000	68.9 F	--	891	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-16L01 M 05/16/66 5000	66.8 F	--	374	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-16J01 M 03/29/66 5000	67 F	9.1	560	8.0	0.9	110	2.1	26	114	42	66	0.9	0.5	0.4	79	--	24	
				.40	.07	4.79	.05	.47	1.87	.87	1.86	.01				392	0	
				B	1	9.1	1	16	34	15	34							

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB SAMPLE	PH	EC LAA FLD	CA	MG	NA	K	MILLIGRAMS PER LITER				F	B	SI02	MILLIGRAMS PER LITER				
							MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	CO3	HC03	SO4				CL	NO3	NO3	NO3	
135/15E-20001 M 05/04/66 5000	64.8F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-21001 M 05/16/66 5000	64.2F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-22001 M 05/16/66 5000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-24001 M 05/12/66 5000	66.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15E-25A M 05/12/66 5000	63.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/15F-25F01 M 05/16/66 5000	61.9F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-01A02 V 03/07/66 5000	--	540	33	27	32	2.9	0.0	138	24	82	4.8	0.2	0.0	77	--	194	--	--
135/16E-01C01 M 05/09/66 5000	--	905	1.65	2.22	1.39	.07	2.26	.50	2.31	.08	2	--	--	--	--	351	81	--
135/16E-03A01 M 05/20/66 5000	66.9F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-05C01 M 05/20/66 5000	--	473	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-07A01 M 05/12/66 5000	67 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-12K01 V 03/07/66 5000	71 F	214	16	1.7	32	1.9	3.0	98	6.0	12	0.4	0.3	0.0	78	--	197	42	0

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME	TEMP	PH	EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	TDS	SUM			
LAB FLO	LAB FLO	LAB FLO	LAB FLO	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	
135/16E-12K01 M 05/13/66	70.6F	--	--	307	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16F-14H02 M 05/13/66	65.2F	--	--	288	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16F-16J01 M 03/07/66	65 F	8.4	230	1.60 68	2.9 10	2.4 20	11 20	1.9 6	4.0 1.57	96 70	12 11	10 13	0.8 .01	0.2	0.0	53	175	92	7	
135/16F-16J01 M 05/13/66	--	--	192	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16F-18F01 M 05/12/66	69 F	--	653	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-18H01 M 05/12/66	--	--	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-19J01 M 05/13/66	67.6F	--	162	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/16E-22A01 M 03/14/66	65 F	8.4	158	2.8 1.4 8	0.5 .04 2	36 1.57 8A	36 2	1.2 .03	2.0 0.7	87 1.43	3.0 0.6	5.2 .15	0.4 .01	0.1	0.1	63	157	9	0	
135/16E-22A01 M 05/13/66	65.4F	--	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/17E-02A01 M 05/09/66	66 F	--	287	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/17E-02H01 M 03/14/66	65 F	8.4	414	36 1.40 41	9.7 .80 18	40 1.74 40	40 1	1.9 .05	5.0 1.7	168 2.76	23 .48	26 17	7.4 .12	0.5	0.1	65	297	130	0	
135/17E-08H01 M 05/09/66	--	--	295	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME SAMPLER	PH LAB FLD	TEMP F	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS					
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	5102	SUM	
135/17c-08L01 M 03/11/66 5000	7.9	65 F	268	16	4.1	35	0.9	0.0	134	14	7.1	6.8	0.3	0.1	65	--	62
				.90	.34	1.52	.02		2.20	.29	.20	.11			217	0	0
135/18c-03M01 M 05/11/66	--	67 F	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135/18c-06F02 M 05/11/66	--	67 F	105	--	--	--	--	--	--	--	--	--	--	--	--	--	--
145/12c-12M01 M 10/20/65 5050	8.7	--	3090 2680	46 2.30	29 2.38	588 25.5A	5.1 .13	19 .63	244 4.00	606 12.60	462 13.03	2.1 .03	--	7.5	--	1960 1884	236 5
145/12c-25E01 M 10/20/65 5050	8.7	--	1850 1570	62 3.09	32 2.63	308 13.40	4.8 .12	17 .57	177 2.90	591 12.29	111 3.13	2.4 .04	--	2.1	--	1270 1217	285 112
145/13c-03M01 M 10/22/65 1300 5050	8.5	78 F	2390 2100	145 7.24	146 12.04	198 8.61	--	5.0 .17	168 2.76	--	125 3.53	--	--	--	--	--	964 818
145/13c-07E01 M 10/20/65 1435 5050	8.6	--	1920 1650	74 3.49	63 5.22	262 11.40	--	12 .40	204 3.35	--	91 2.57	--	--	--	--	--	446 259
145/13c-115H01 M 10/22/65 1055 5050	8.5	--	2240 2000	29 1.45	6.4 5.3	431 18.75	--	8.0 .27	161 2.64	--	237 6.68	--	--	--	--	--	99 0
145/13c-18M01 M 10/20/65 5050 5050	8.6	88 F	2390 2100	35 1.75	20 1.67	464 20.18	--	12 .40	206 3.38	--	146 4.12	--	--	--	--	--	171 0
145/13c-19M01 M 10/20/65 5050	8.3	87 F	2150 1870	50 2.50	31 2.62	376 16.36	--	0.0	205 3.36	--	111 3.13	--	--	--	--	--	256 88
145/13c-26E01 M 10/22/65 0945 5050	8.6	--	1850 1650	101 5.04	105 8.66	167 7.26	--	12 .40	177 2.90	--	93 2.62	--	--	--	--	--	645 520
145/14c-04M01 M 10/28/65 1505 5050	8.4	--	4440 3500	324 16.17	255 21.02	444 19.49	--	4.0 .13	152 2.49	--	392 11.05	--	--	--	--	--	1860 1730

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLD	PH LAR FLD	EC FLD	MINERAL CONSTITUENTS IN MG				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS				
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	N03	F	B	SI02	SUM
145/14E-05E01 M 10/27/65 5050 0935	74 F	8.4	4050 3000	227 11.33	166 13.67	444 19.49	--	4.0 .13	172 2.82	--	602 14.98	--	--	--	--	1250 1103
145/14E-05H01 M 10/28/65 5050 1100	--	8.1	3640 2700	243 14.12	224 14.47	274 12.04	--	0.0	154 2.53	--	307 8.66	--	--	--	--	1630 1505
145/14E-05N01 M 10/27/65 5050 0950	--	8.6	1740 1325	46 4.29	63 5.23	206 8.96	--	12 .40	183 3.00	--	111 3.13	--	--	--	--	476 306
145/14E-13E01 M 08/09/66 5050	--	8.1	18600	53 2.44	612 50.33	3850 167.44	--	0.0	999 16.34	--	3740 105.47	--	--	--	--	2650 1832
145/14E-13E02 M 08/09/66 5050	--	7.9	9780 25.40	509 14.79	228 65.24	1500	--	0.0	453 7.43	--	1280 36.10	--	--	--	--	2210 1840
145/14E-14G01 M 10/28/65 5050 1400	--	8.4	1360 1120	29 1.45	14 1.17	234 10.35	--	4.0 .13	222 3.84	--	100 2.82	--	--	--	--	131 0
145/14E-16N01 M 10/25/65 5050 0930	--	8.5	2340 1800	143 7.14	146 12.08	194 8.66	--	7.0 .23	158 2.59	--	116 3.27	--	--	--	--	961 821
145/14E-21K01 M 10/29/65 5050 1100	74 F	8.4	5960 4500	350 17.47	257 21.13	694 30.23	--	4.0 .13	226 3.71	--	498 25.32	--	--	--	--	1930 1739
145/14E-22N04 M 08/24/66 5050 1100	--	8.1	6670 24.75	496 23.04	280 33.97	741	--	0.0	237 3.89	--	1650 46.53	--	--	--	--	2390 2197
145/14E-28N01 M 10/27/65 5050 1110	74 F	8.6	2340 1800	135 6.74	82 6.80	274 11.92	--	12 .40	211 3.46	--	210 5.92	--	--	--	--	677 484
145/14E-28R01 M 10/27/65 5050 1225	77 F	8.4	5290 4000	134 6.69	87 1.87	924 40.37	--	4.0 .13	117 1.92	--	1360 34.35	--	--	--	--	428 326
145/14E-29N01 M 08/24/66 5050 1415	--	8.2	1640 3.09	42 2.46	29 11.09	255	--	0.0	96 1.57	--	165 4.65	--	--	--	--	278 200

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME	TEMP	P H			CA	Mg	NA	K	CO ₃	HCO ₃	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE		MILLIGRAMS PER LITER							
		L	S	FLD							CL	NO ₃	F	8	S102	TDS	TH			
		FLD	L	S	FLD	L	S	FLD	L	S	FLD	L	S	FLD	L	S	FLD	L	S	FLD
145/15F-14001 08/00/66 1200	73.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
145/15F-14001 08/00/66 1230	73.5F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
145/15F-24001 08/23/66 1400	--	8.3	14.500	234	502	343F	--	0.0	209	3.43	--	2030	--	2660	--	2660	--	2660	--	2660
145/15F-24001 10/29/65 1230	--	4.6	1400	34	9.2	301	--	12	164	--	100	--	123	--	123	--	123	--	123	0
145/16F-03011 10/15/65 5702	--	7.6	--	40	7.3	568	--	0.0	146	6.1	472	--	1598	--	1598	--	1598	--	1598	131
145/16F-03011 12/16/65 5411	--	7.6	1150	10	1.2	235	--	0.0	136	6.0	301	--	800	--	800	--	800	--	800	30
145/16F-03011 06/01/66 1150	60.7F	4.2	447	5.9	0.4	144	2.8	2.8	0.0	130	4.6	214	0.6	551	16	551	16	551	16	478
145/16F-03011 09/01/66 0450	--	4.3	2020	97	47	445	--	0.0	438	--	676	--	438	--	438	--	438	--	438	79
145/22F-17001 03/09/66 1305	--	7.7	403	29	20	26	2.9	0.0	216	15	9.5	9.1	0.0	52	264	154	52	264	154	269
145/22F-13011 09/13/66 5150	--	4.4	251	17	9.6	--	--	4.0	109	--	3.0	20	--	--	--	--	--	--	--	--
155/12F-11011 11/04/65 1100	47 F	8.5	1560	40	4.1	280	6.2	6.0	136	505	67	2.3	--	1.8	--	1070	117	1070	117	979
155/13F-01011 11/04/65 1300	--	4.7	1180	40	1.2	212	3.5	15	163	354	52	4.0	--	1.2	--	793	151	793	151	763

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	PH	EC FLD	LAR FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				TDS SUM	TH NCH	
								CO3	HCO3	SO4	CL	NO3	F	B	ST02	MCH			
155/13E-02N01 M 11/04/65 5050 1400 5050	--	8.7	2090 2112	28	15	397	--	11	201	--	129	--	--	--	--	--	--	132	0
155/13E-04E01 M 11/04/65 5050	--	8.6	1640 1725	41	25	278	--	8.0	155	--	65	--	--	--	--	--	--	208	68
155/13E-08N01 M 11/04/65 5050 1000 5050	--	8.6	1470 1505	30	0.0	284	3.2	12	140	471	56	1.4	--	2.0	--	--	--	1010	75
155/13E-09E01 M 11/04/65 5050	--	8.5	1350 1404	40	3.2	246	--	6.0	148	--	49	--	--	--	--	--	--	928	0
155/13E-26J02 M 11/03/65 5050 1400 5050	89 F	8.7	2140 2185	95	27	371	4.2	17	259	764	94	5.2	--	2.0	--	--	--	1560	350
155/14E-01K01 M 11/04/65 5050 1450 5050	74 F	8.5	3210 3269	226	123	343	--	12	238	--	375	--	--	--	--	--	--	1070	856
155/14E-11J02 M 08/09/66 5050	--	8.0	7030 23450	471	203	1060	--	0.0	254	--	158	--	--	--	--	--	--	2010	1803
155/14E-12M01 M 11/04/65 5050 1425 5050	76 F	8.7	1370 1375	56	21	202	--	16	218	--	37	--	--	--	--	--	--	227	22
155/14E-36J02 M 11/03/65 5050 0900 5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
155/14E-36R01 M 08/14/66 5050	74 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
155/14E-36J02 M 11/03/65 5050 0900	--	8.4	1630	47	12	282	2.8	4.0	127	542	77	1.2	--	1.8	--	--	1040	165	55
155/15E-01C01 M 04/09/66 5050	--	8.4	1460	39	24	240	--	8.0	457	--	129	--	--	--	--	--	--	196	0

TABLE B-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	PH LAB FLD	TEMP FLD	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS SUM		
			CA	MG	NA	K	C03	HC03	SO4	CL	N03	F	B	S102	TDS	TH	NCH	
155/15F-01J01 M 11/04/65 5050 0800 5050	8.5 2220 2236	--	17 0.85	1.3 0.11	4.31 18.75	--	--	8.0 0.27	178 2.92	--	390 11.00	--	--	--	--	--	48 0	
155/15E-09D01 M 08/09/66 5050 5050	7.8 75200	--	618 30.84	648 53.34	24200 226.70	1	--	0.0 16.38	999 150.87	--	5350 150.87	--	--	--	--	--	4210 3394	
155/15E-21H01 M 11/04/65 5050 0920 5050	8.1 2600 1782	75 F	167 8.33	130 10.70	238 10.35	--	--	0.0 2.92	178 2.92	--	137 3.86	--	--	--	--	--	952 807	
155/15E-22N01 M 11/03/65 5050 1520 5050	8.5 1750 1782	76 F	101 5.04	93 7.64	139 6.05	--	--	6.0 0.20	167 2.74	--	68 1.92	--	--	--	--	--	636 489	
155/15E-22O01 M 11/04/65 5050 0920 5050	8.4 2350 2313	74 F	156 7.78	129 10.67	192 8.35	--	--	5.0 0.17	139 2.28	--	109 3.07	--	--	--	--	--	923 801	
155/15E-27N01 M 11/03/65 5050 1325 5050	8.4 1770 1780	74 F	124 6.19	104 8.55	121 5.26	4.2 0.11	4.2 0.13	4.0 2.59	158 14.56	68 1.92	3.2 0.05	0.8 0.05	1420 1207	737 601				
155/16E-05E02 M 08/09/66 5050 5050	8.5 1510	--	12 0.60	5.8 0.48	295 12.83	--	--	17 0.57	476 7.81	--	143 4.03	--	--	--	--	--	54 0	
155/16E-05K01 M 10/20/65 5050 1400 5050	8.2 1190 900	--	11 0.55	2.8 0.23	231 10.05	2.3 0.06	2.3 0.06	0.0 2.12	129 6.82	328 1.97	70 0.02	1.2 0.02	786 711	39 0				
155/16E-13J01 M 09/01/66 5050 0400 5050	8.0 821	68 F	44 2.20	13 1.08	119 5.18	--	--	0.0 3.66	223 3.66	--	104 2.93	--	--	--	--	--	164 0	
155/16E-26A01 M 08/26/66 5050 0400 5050	8.5 1020	--	53 2.64	16 1.39	162 7.05	--	--	6.0 0.20	264 4.33	--	57 1.61	--	--	--	--	--	202 0	
155/17E-24J01 M 12/17/65 5050	8.0 13400	--	1420 70.86	114 9.37	1260 54.81	55 1.41	55 1.41	0.0 1.92	117 0.91	4420 135.92	3.3 0.05	1.7 0.05	8850 7735	4140 4047				
155/17E-24K01 M 12/17/65 5050	8.2 351 7.5	72 F	6.4 0.32	1.2 0.10	66 2.87	4.9 0.13	4.9 0.13	0.0 2.16	132 6.53	1.2 1	41 0.08	0.1 0.08	264 190	21 0				

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME LAH SAMPLER	TEMP F	PH LAH FLD	EC LAH FLD	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER					TH		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TDS SUM					
155/17E-24K01 M 08/04/66 5050 1225	71 F	8.2	479 510	15 75	0.6 .05	--	--	0.0	131	--	73	--	2.15	2.06	--	0.2	--	--	--	40	
155/18E-19E01 M 12/17/65 5050	67.5 F	8.2 7.3	376	9.1 45 12	4.0 33 9	6.2 2.7 7.4	1.7 5	0.0	127	1.3	50	5.6	2.08	1.41	0.9	--	0.0	--	--	279	39
155/22E-03D02 M 09/13/66 5050	--	8.2	164	13 65	7.1 .59	--	--	0.0	62	--	2.1	2.0	1.02	.06	.32	--	--	--	--	62	11
155/22E-04D01 M 09/13/66 5050	--	8.7	487	27 135	24 2.03	--	--	14	192	--	5.5	28	4.7	3.15	.16	.45	--	0.0	--	169	0
155/22E-04C02 M 09/13/66 5050	--	9.1	294	0.6 83	94 7.79	--	--	67	434	--	43	0.9	2.23	7.12	1.21	.01	--	--	--	391	0
155/22E-04F01 M 09/13/66 5050	--	8.9	742	3.2 16	71 5.88	--	--	33	377	--	36	1.0	1.10	6.18	1.02	.02	--	0.1	--	302	0
155/22E-04F02 M 09/13/66 5050	--	8.9	697	1.6 88	67 5.54	--	--	34	343	--	32	1.4	1.13	5.63	.90	.02	--	--	--	281	0
155/22E-04H01 M 09/13/66 5050	--	8.1	116 120	7.9 39	4.6 .39	--	--	0.0	59	--	1.4	1.1	0.97	.04	.02	--	--	--	--	39	0
155/22E-05A01 M 09/13/66 5050	--	8.1	144	12 60	4.1 .34	--	--	0.0	65	--	5.5	12	1.07	.16	.19	--	--	--	--	47	0
155/22E-10H01 M 09/07/66 5050 0800	--	--	60	8.4 42	0.0	--	--	--	--	--	0.5	1.2	--	.01	.02	--	--	--	--	21	21
155/22E-10H02 M 09/07/66 5050	--	7.3	51	3.7 14	2.9 .24	--	--	0.0	27	--	0.6	1.1	--	.02	.02	--	--	--	--	21	0
155/22E-10H03 M 09/07/66 5050	--	6.9	61	5.1 25	2.3 .19	--	--	0.0	30	--	1.2	1.3	--	.03	.02	--	--	--	--	22	0

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME SAMPLED	TEMP F/D	PH F/D	MINERAL CONSTITUENTS IN LBS/LAR FLD				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM						
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TH NCH		
155/24E-15C01 09/31/66 5050	--	8.6	520	48	18	--	--	13	187	--	15	47	--	--	197	22	
			2.40	1.54				.43	3.07		.42	.76					
155/24E-22C01 M 04/28/66 5050 1000 5750	--	8.0	346	32	9.5	--	--	0.0	162	--	13	16	--	0.0	--	119	0
			1.60	.78					2.66		.37	.26					
155/24E-22J01 V 03/30/66 5050 0900 5050	--	8.3	310	29	4.6	23	2.1	0.0	128	20	16	8.5	--	0.0	--	226	108
			1.45	.71	1.00	.05			2.10	.42	.45	.14				170	3
			45	22	31	2			68	14	14	5					
155/24E-22R01 M 04/28/66 5050 0945 5050	--	8.3	599	76	4.4	--	--	0.0	188	--	67	14	--	0.0	--	208	94
			3.79	.37					3.08		1.89	.23					
155/24E-23C02 05/26/66 5050 1300 5050	--	8.6	427	40	11	--	--	9.0	133	--	24	--	--	--	--	147	23
			4.25	2.00	.90			.30	2.18		.68						
155/24E-23D01 V 05/26/66 5050 1600 5050	--	8.7	607	60	19	--	--	18	215	--	35	--	--	--	--	227	21
			5.99	2.99	1.56			.60	3.53		.99						
155/24E-24C01 M 05/26/66 5050 1335 5050	--	8.5	608	38	15	--	--	8.0	183	--	23	--	--	--	--	155	24
			3.97	1.90	1.23			.27	2.35		.65						
155/24E-24C02 M 04/31/66 5050	--	8.5	570	57	20	--	--	8.0	170	--	33	65	--	--	--	227	74
			2.84	1.69				.27	2.79		.93	1.05					
155/24E-26C01 V 09/31/66 5050	--	8.3	565	42	24	--	--	0.0	183	--	22	62	--	--	--	207	57
			2.10	2.04					3.00		.62	1.00					
155/24E-26C01 M 05/26/66 5050 1440 5050	--	8.5	324	34	11	--	--	10	120	--	17	--	--	--	--	131	16
			3.30	1.70	.90			.33	1.97		.48						
155/24E-26F01 M 05/26/66 5050 1500 5050	--	8.6	438	41	16	--	--	8.0	157	--	25	--	--	--	--	166	24
			5.78	2.05	1.32			.27	2.57		.71						
155/24E-26O01 M 09/31/66 5050	--	8.1	885	66	38	--	--	0.0	228	--	100	46	--	--	--	324	137
			3.29	3.18					3.74		2.82	.74					

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER									
									CO ₃	HC0 ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TDS SUM	TH NCH
155/24E-27801 M 09/31/66 5050	--	8.0	858	78	40	--	--	0.0	257	--	44	62	--	--	--	--	362	152
				3.89	3.35			4.21	1.24	1.00								
155/24E-28401 M 09/31/66 5050	--	8.2	444	36	17	--	--	0.0	172	--	16	39	--	--	--	--	162	21
				1.80	1.44			2.82	.45	.63								
155/24E-29N01 M 08/15/66 5050	--	8.4	789	53	33	--	--	6.0	213	--	39	94	--	--	--	--	270	86
				2.64	2.75			.20	3.49	1.10	1.51							
155/24E-33001 M 08/15/66 5050	--	8.4	693	54	26	--	--	6.0	286	--	23	52	--	--	--	--	257	13
				2.94	2.19			.20	4.69	.65	.84							
155/25E-07601 M 08/15/66 5050	--	8.5	537	42	13	--	--	8.0	154	--	22	58	--	--	--	--	162	22
				2.10	1.14			.27	2.53	.62	.93							
155/25E-21C01 M 08/31/66 5050	--	8.1	830	80	30	--	--	0.0	196	--	72	55	--	--	--	--	327	167
				3.99	2.55			3.21	2.03	.89								
155/25E-29N01 M 08/31/66 5050	--	8.7	692	73	25	--	--	15	187	--	37	49	--	--	--	--	286	108
				3.64	2.08			.50	3.07	1.04	.77							
155/25E-31001 M 08/15/66 5050	--	8.2	790	66	33	--	--	0.0	205	--	64	56	--	--	--	--	304	136
				3.29	2.78			3.36	1.80	.90								
155/25E-31E01 M 09/31/66 5050	--	8.6	876	104	32	--	--	21	252	--	62	57	--	--	--	--	392	151
				5.19	2.65			.70	4.13	1.75	.92							
165/14E-01002 M 10/28/65 5050	--	8.4	1360	65	15	198	--	2.0	94	--	47	--	--	--	--	--	225	145
				1080	3.24	1.26	8.61	.07	1.54	1.33								
165/14E-04F01 M 10/27/65 5050	--	8.4	1300	40	7.8	220	--	3.0	126	--	34	--	--	--	--	--	132	24
				940	2.00	.64	9.57	.10	2.07	.96								
165/14E-04P01 M 10/28/65 5050	--	8.5	1540	53	7.9	266	--	4.0	143	--	42	--	--	--	--	--	165	41
				1140	2.64	.65	11.57	.13	2.35	1.18								

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH	EC			MINERAL CONSTITUENTS IN			MILLIGRAMS PER LITER					MILLIEQUIVALENT PER LITER			PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER			TDS	TH	NCH				
			LAB FLD	FLD	FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SIO ₂	CO ₃	HCO ₃	SO ₄	CL	NO ₃				F	H	SIO ₂	SUM
165/14F-05N01 M 10/27/65 5050 1430 5050	90 F	8.4	1310	53	7.9	209	--	3.0	114	--	31	--	--	--	--	--	3.0	114	--	31	--	--	--	--	--	145	67		
165/14F-07O01 M 10/27/65 5050 1400 5050	--	8.2	1340	66	16	186	--	0.0	140	--	40	--	--	--	--	--	0.0	140	--	40	--	--	--	--	--	234	119		
165/14F-08O01 M 09/13/66 5060 5060	--	8.3	--	48	32	32	2.5	--	194	24	30	23	0.1	--	--	--	194	24	30	23	0.1	--	--	--	358	216	288	57	
165/14E-10N01 M 10/27/65 5050 1300 5050	--	8.3	1590	90	17	220	--	0.0	114	--	55	--	--	--	--	--	0.0	114	--	55	--	--	--	--	--	295	202		
165/14F-10O01 M 10/27/65 5050 1230 5050	--	8.3	1590	93	24	206	--	0.0	112	--	49	--	--	--	--	--	0.0	112	--	49	--	--	--	--	--	334	242		
165/14F-24P01 M 10/27/65 5050 1000 5050	--	8.4	1380	58	24	194	--	4.0	126	--	60	--	--	--	--	--	4.0	126	--	60	--	--	--	--	--	245	135		
165/14F-24R01 M 10/27/65 5050 1100 5050	--	8.5	1420	73	17	186	--	10	132	--	69	--	--	--	--	--	10	132	--	69	--	--	--	--	--	256	132		
165/15E-01R01 M 08/11/66 5050	77 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
165/15E-09O01 M 10/24/65 5050 1200 5050	83.0F	8.3	1320	56	18	195	3.5	0.0	93	498	47	1.5	--	1.7	--	0.0	93	498	47	1.5	--	--	--	--	--	938	216	866	140
165/15E-10N02 M 10/24/65 5050 1400 5050	76 F	8.5	1840	129	96	135	--	10	176	--	99	--	--	--	--	--	10	176	--	99	--	--	--	--	--	--	720	559	
165/15E-16O02 M 10/24/65 5050 1500 5050	--	8.3	7480	631	563	439	--	0.0	148	--	1190	--	--	--	--	--	0.0	148	--	1190	--	--	--	--	--	3410	3691		
165/16E-01R01 M 08/26/66 5050 0945 5050	--	8.3	1210	54	28	174	--	0.0	374	--	115	--	--	--	--	--	0.0	374	--	115	--	--	--	--	--	252	0		

TABLE B-2
GENERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	P.H. LAB FLD	FC LAB FLD	CA	MG	NA	K	CO ₃	HCO ₃	PERCENT REACTANCE VALUE		CL	NO ₃	F	R	MILLIGRAMS PER LITER			
									SO ₄	SO ₄					SO ₄	SO ₄	SO ₄	SO ₄
165/16E-28R01 M 08/11/66 5050	7.7	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
165/17E-04R03 M 08/26/66 5050 1230	8.2	F	1630	115	40	184	0.0	196	--	246	--	--	--	--	--	453	293	
175/15E-20C01 M 03/17/66 5050 1130	8.3	F	2240	121	93	250	0.0	166	--	185	--	--	--	--	--	687	551	
175/16E-09R02 M 08/25/66 5050	7.9	F	5720	515	207	686	0.0	125	--	273	--	--	--	--	--	2140	2039	
175/20E-05C02 M 06/17/66 5050 0745	9.2	F	149	3.7	0.7	37	1.1	16	60	3.4	9.8	1.3	--	0.1	--	134	12	
175/23E-08J02 M 06/16/66 5050 1415	8.0	F	1040	47	11	--	--	0.0	372	--	125	46	--	--	--	265	0	
175/26E-10F01 M 07/12/66 5050	8.3	F	572	51	27	--	--	0.0	174	--	39	58	--	--	--	240	98	
175/26E-17E01 M 07/12/66 5050	8.4	F	735	55	29	--	--	10	267	--	30	48	--	--	--	259	24	
175/27E-14R01 M 07/27/66 5050	8.3	F	597	56	23	--	--	0.0	223	--	39	33	--	--	--	235	52	
175/27E-31M01 M 07/27/66 5050	8.3	F	345	32	17	--	--	0.0	204	--	14	7.1	--	--	--	153	0	
175/27E-32M02 M 07/27/66 5050	7.4	F	1040	104	43	--	--	0.0	145	--	36	234	--	--	--	447	328	
175/27E-33M01 M 07/28/66 5050	7.4	F	872	124	3.0	25	0.0	343	--	33	30	30	--	--	--	322	41	

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB SAMPLER TIME	TEMP F/D	PH LAB F/D	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER			
			EC LAB F/D	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	SI0 ₂	TH	IO ₃	SUM	TH	NCH
175/27E-35P01 M 07/24/66 5050	--	8.5	1150	128	29	--	--	11	209	--	37	158	--	--	--	--	--	--	440	250
185/15E-24N01 M 03/10/66 5050	--	8.0	2640	163	50	364	5.0	0.0	113	860	310	20	--	3.2	--	1840	612	1811	520	
185/17E-07N04 M 03/10/66 1200	92.5F	8.4	2430	29	2.5	446	--	6.0	178	--	539	--	--	--	--	--	--	--	83	0
185/17E-13E01 M 03/10/66 1445	95 F	8.6	2900	26	13	569	4.3	22	399	124	640	0.4	--	2.3	--	1560	120	1592	0	0
185/20E-19N01 M 06/17/66 0830	19 C	9.2	456	1.4	0.1	103	0.7	25	193	13	18	0.0	--	0.6	--	284	4	256	0	0
185/23E-25H02 M 08/15/66 5050	--	8.5	408	34	1.2	--	--	8.0	176	--	7.9	28	--	--	--	--	90	--	90	0
185/24E-33E02 M 03/07/66 1015	--	8.2	1110	124	20	62	1.6	0.0	350	30	125	59	--	0.0	--	641	394	593	107	0
185/24E-33E02 M 04/27/66 0900	--	8.0	962	127	2.4	--	--	0.0	314	--	110	53	--	0.0	--	--	327	--	327	70
185/25E-34N01 M 02/21/66 5070	--	7.8	190	23	3.8	9.4	0.6	0.0	97	2.1	5.8	1.6	--	0.0	--	113	73	94	0	0
185/27E-02M01 M 07/28/66 5050	--	7.8	633	61	16	22	1	1.59	87	2	9	2	--	--	--	--	246	--	246	45
185/27E-05F01 M 07/27/66 5050	--	7.7	303	43	8.4	--	--	0.0	97	--	6.4	31	--	--	--	--	142	--	142	63
185/27E-09A02 M 07/28/66 5050	--	8.3	831	87	22	--	--	0.0	281	--	33	63	--	--	--	--	310	--	310	80

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	P.H. L.H. FLD	EC L.H. FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER				TDS SUM	TH NCH
			Ca	Mg	Na K	CO3	HCO3	SO4	CL	NO3	F	H	5102			
185/275-09401 4 07/28/66 5050	8.1	744	70	25	--	0.0	225	--	33	79	--	--	--	--	278	94
185/275-10002 4 07/28/66 5050	8.3	972	118	35	--	0.0	378	--	27	59	--	--	--	442	132	
185/275-10002 4 07/28/66 5050	8.0	977	106	31	--	0.0	260	--	36	133	--	--	--	395	162	
185/275-10001 4 07/28/66 5050	7.9	729	77	34	--	0.0	277	--	32	27	--	--	--	316	89	
185/275-10001 4 07/28/66 5050	7.2	546	48	22	--	0.0	136	--	34	81	--	--	--	213	102	
195/175-34E11 11 03/10/66 1400	8.1	1820	97	102	164	4.4	0.0	162	754	86	2.9	0.9	--	1370	660	
195/175-32001 4 03/10/66 1530	8.3	2590	34	8.5	464	--	0.0	241	--	599	--	--	--	1291	527	
195/205-33401 4 06/17/66 0450	8.6	539	3.7	0.6	--	--	5.0	270	--	31	--	--	--	--	12	0
195/235-01001 4 08/17/66 5050	8.2	246	26	3.9	--	--	0.0	114	--	7.6	14	--	--	--	81	0
195/235-01101 4 03/07/66 0920	8.1	178	8.0	0.7	27	0.2	0.0	77	348	7.5	6.7	0.0	--	110	23	
195/235-01101 4 08/17/66 5050	8.1	141	4.1	0.6	1.17	1	0.0	1.26	0.07	1.1	0.05	0.0	--	91	0	
195/235-01101 4 08/17/66 5050	8.1	270	29	2.5	--	--	0.0	120	--	15	6.9	--	--	--	93	0
195/235-02001 4 03/07/66 0935	8.1	342	34	0.0	34	0.3	0.0	164	6.2	11	13	--	--	206	95	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAH TIME SAMPLER	TEMP FLD	PH FLD	FC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER			
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TDS	TH	SUM	TM
19S/236-12C03 08/17/66 5050	--	8.1	612	72	10	--	--	0.0	1.98	--	51	51	--	--	--	--	--	222	68
				3,459	85			3.08		1.44	1.44	1.44							
19S/238-12L01 08/17/66 5050	--	8.1	155	6.9	0.0	--	--	0.0	6.8	--	7.1	5.7	--	--	--	--	--	17	0
				3.4				1.12			1.20	1.09							
19S/245-06N01 03/02/66 5050	--	8.1	231	17	2.3	26	0.3	0.0	87	4.3	1.8	1.4	--	0.0	--	--	--	134	52
				8.5	1.9	1.1	0.1		1.43	0.9	1.51	1.23						125	0
				19	9	5.2			63	4	23	10							
19S/245-06N01 03/02/66 5050	--	7.9	146	2.9	0.7	2.4	0.2	0.0	59	2.8	5.9	2.6	--	0.0	--	--	--	84	10
				1.4	0.6	1.0	0.1		0.7	0.6	1.7	0.4						68	0
				11	5	4.3			7.8	5	1.4	3							
19S/255-05F01 03/02/66 5050	6.3 F	8.2	1450	113	26	12.4	1.6	0.0	258	7.4	31.4	8.1	--	0.0	--	--	--	853	388
				5.6	1.90	5.6	2.1	5.3	4.23	1.5	1.85	1.3						721	177
				4.3	1.6	4.1			3.2	1	6.6	1							
19S/255-06N01 03/02/66 5050	6.3.5F	8.1	1120	133	25	4.4	1.4	0.0	2.45	1.0	1.94	5.3	--	0.0	--	--	--	674	435
				6.7	10.6	6.6	2.0	1.9	4.02	2.1	5.47	8.5						580	234
				14.20		1.4			3.8	2	5.2	8							
19S/255-06N01 03/28/66 5050	--	7.0	997	106	22	6.2	2.2	0.0	15.9	1.3	1.96	3.0	--	0.0	--	--	--	704	356
				5.29	1.81	1.4	0.6		2.61	2.7	5.53	4.8						489	226
				5.9	2.0	2.0	1		2.9	3	6.2	5							
19S/255-06N01 05/11/66 5050	--	8.2	1090	133	23	4.6	2.2	0.0	2.48	1.4	2.03	2.1	--	0.0	--	--	--	799	427
				6.6	1.89	2.0	0.6		4.07	2.4	5.72	3.4						564	224
				6.3	1.8	1.4	1		3.9	3	5.5	3							
19S/255-06N01 07/29/66 5050	--	8.2	802	6.9	1.9	--	--	0.0	8.8	--	1.71	1.9	--	--	--	--	--	253	181
				3.44	1.62				1.44		4.82	3.1							
19S/255-06N01 08/30/66 5050	--	8.0	742	6.0	2.0	--	--	0.0	6.6	--	1.65	1.9	--	--	--	--	--	232	178
				2.99	1.64				1.08		4.65	3.1							
19S/265-34J01 03/11/66 5050	--	--	486	--	--	--	--	--	--	--	1.51	--	--	--	--	--	--	--	--
											4.26								
19S/265-34J01 04/18/66 5050	--	8.6	469	35	1.9	--	--	8.0	1.71	--	1.66	2.3	--	0.2	--	--	--	159	16
				1.75	1.63			2.7	2.80		4.12	3.7							
				12.00															

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLD	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER			TDS SUM	TH NCH							
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	SI	Fe	Al	SiO ₂									
195/26E-34J01 M 07/26/66 5050 1015 5050	--	--	894	--	--	--	--	--	--	--	151 4.26	22 .35	--	--	--	--	--	--	--	--	--	--	--	--		
195/26E-34J01 M 09/15/66 5050	--	8.7	905	--	--	--	--	19 .63	162 2.66	--	392 10.77	--	--	--	--	--	--	--	--	--	--	232 58	--	--		
195/26E-34K02 M 12/27/65 5050	--	--	1250	--	--	--	--	--	--	--	175 4.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34L01 M 12/27/65 5050	--	--	780	--	--	--	--	--	--	--	109 3.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34L02 M 12/27/65 5050	--	--	681	--	--	--	--	--	--	--	126 3.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34N01 M 12/27/65 5050	--	--	1200	--	--	--	--	--	--	--	91 2.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34N01 M 04/18/66 5050 1230 5050	--	8.6	519	16 .80	8.0 .66	--	--	5.0 .17	168 2.76	--	52 1.47	8.6 .14	--	--	0.1	--	--	--	--	--	--	73 0	--	--	--	
195/26E-34N01 M 07/26/66 5050 1025 5050	--	--	530	--	--	--	--	--	--	--	52 1.47	10 .16	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34N01 M 09/15/66 5050	--	8.6	534	20 1.00	14 1.16	--	--	8.0 .27	168 2.76	--	53 1.49	--	--	--	--	--	--	--	--	--	--	108 0	--	--	--	
195/26E-34R01 M 12/27/65 5050	--	--	1170	--	--	--	--	--	--	--	238 6.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
195/26E-34R01 M 04/18/66 5050 1215 5050	--	8.6	1230	49 2.45	33 2.79	--	--	8.0 .27	159 2.61	--	260 7.33	30 .48	--	0.2	--	--	--	--	--	--	--	262 118	--	--	--	
195/26E-34R01 M 07/26/66 5050 1920 5050	--	--	1210	--	--	--	--	--	--	--	242 6.82	29 .47	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

DATE TIME	WELL NAME	TEMP	PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM							
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TM			
195726F-340702																			
12/27/65	5150		1000																
195726E-340702																			
11/11/66	5150		1380																
195726E-340702																			
07/24/66	5150		948																
1010	5150																		
195716E-310701																			
06/02/66	5150		3080	187	149	329	7.4	0.0	203	1200	270	12							
1200	5070			94.33	12.25	14.31	1.9		3.33	24.96	7.61	1.9							
205/17E-140701				26	34	40	1		9	69	21	1							
03/10/66	5150		813	1350	69	38	154	2.8	0.0	127	488	45	2.9						
1500	5150			1220	3.44	3.12	6.7	0.7		2.08	10.15	1.27	.05						
205/17E-240701				26	23	50	1		15	75	9								
03/11/66	5150	10.5F	813	1240	63	46	133		0.0	156		37							
1200	5150			1160	3.14	3.85	5.73			2.56		1.04							
205/17E-360701																			
03/11/66	5150	4.2 F	813	994	50	18	127	2.3	0.0	118	334	31	8.0						
1215	5150			890	2.50	1.56	5.32	0.6		1.94	6.95	4.87	.13						
1915	5150			26	16	57	1		20	70	9	1							
205/20E-10L01																			
06/17/66	5150		810	857	8.3	0.3			15	418		36							
10915	5150			511	800	41	0.3		.50	6.86		1.02							
205/26E-02E01																			
12/27/65	5150		650																
205/26E-02E01																			
06/14/66	5150		617	39	20				6.0	183		66	28						
1400	5150			1.95	1.67				.20	3.00		1.86	.45						
205/26E-02E01																			
07/24/66	5150		644																
1005	5150																		
205/26E-02E01																			
12/27/65	5150		1770																
10915	5150																		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUM-FW DATE TIME SAMPLE#	TEMP FLO	PH LAB FLO	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER							MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER TDS SUM		
			CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	9	S102	TDS	TH	NCH		
205/24F-02E03 02/14/66 5050	--	1940	--	--	--	--	--	--	452 12.75	--	--	--	--	--	--	--	--		
205/24F-02E03 W 03/11/66 5050	--	1960	--	--	--	--	--	--	480 13.54	--	--	--	--	--	--	--	--		
205/24F-02E03 W 04/14/66 5050 1345 5050	--	8.3 1760	122 6,09	65 5,39	--	--	0.0 3.74	228 6.68	422 11.90	42 1.19	0.1	--	--	--	574 387	--	--		
205/24F-02E03 W 06/15/66 5050 1000 5050	41.5F	8.5 1570 1513	50 2,450	115 9,446	--	--	11 3.37	200 5.62	363 10.24	--	--	--	--	--	598 416	--	--		
205/24E-02E03 F 07/25/66 5050 1000 5050	--	1660	--	--	--	--	--	--	381 10.74	34 0.95	--	--	--	--	--	--	--		
205/24E-02E03 F 12/24/65 5050	--	662	--	--	--	--	--	--	69 1.95	--	--	--	--	--	--	--	--		
205/24E-02N01 W 12/24/65 5050	--	1360	--	--	--	--	--	--	191 5.39	--	--	--	--	--	--	--	--		
205/24F-02H01 W 12/24/65 5050	--	604	--	--	--	--	--	--	66 1.86	--	--	--	--	--	--	--	--		
205/26F-03J01 W 12/24/65 5050	--	5480	--	--	--	--	--	--	1370 36.63	--	--	--	--	--	--	--	--		
205/24F-03D01 03/11/66 5050	--	7.1 5480	205 14,872	205 16,885	580 25,223	15 3.36	0.0 12.10	736 21	43 0.89	1510 45.40	13 0.21	3.5	--	3380 3126	1580 976	--	--		
205/24E-03D01 04/14/66 5050 1245 5050	--	8.0 5420	202 10,008	164 13,491	--	--	0.0 10.48	639 17.77	--	1480 41.74	29 0.87	3.3	--	--	1200 677	--	--		
205/24E-03D01 W 07/24/66 5050 1040 5050	--	6260	--	--	--	--	--	--	1400 39.48	21 0.54	--	--	--	--	--	--	--		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE, LAQ TIME SAMPLER	TEMP	PH	FC LAH	CA	MG	NA	K	MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER						
								CO ₂	HCO ₃	SO ₄	CL	NO ₃	F	R	SI0 ₂	TDS	TH	NCH
20S/26E-03D01 M 09/15/66 5050 5050	--	8.0	5290	254	196	--	--	0.0	666	--	2030	--	--	--	--	--	1450	503
				12.87	16.12			10.96			57.25							
20S/26E-03D02 M 12/28/65 5050 5050	--	--	2680	--	--	--	--	--	--	--	712	--	--	--	--	--	--	--
											20.0A							
20S/26E-03D02 M 03/00/66 5050 5050	--	--	2660	--	--	--	--	--	--	--	597	--	--	--	--	--	--	--
											19.66							
20S/26E-03D02 M 04/18/66 5050 1300 5050	--	8.2	2750	96	84	--	--	0.0	357	--	677	41	--	1.2	--	--	588	296
				4.79	6.97			5.85			19.09	4.66						
20S/26E-03D02 M 06/15/66 5050 1020 5050	41.5F	8.3	2760	104	95	--	--	0.0	354	--	670	--	--	--	--	--	652	362
				5.19	7.85			5.81			14.89							
20S/26E-03D02 M 07/26/66 5050 1035 5050	--	--	774	--	--	--	--	--	--	--	128	30	--	--	--	--	--	--
											3.61	4.48						
20S/26E-03F01 M 02/14/66 5050 5050	--	--	2680	--	--	--	--	--	--	--	710	--	--	--	--	--	--	--
											20.02							
20S/26E-03F01 M 03/11/66 5050 5050	--	--	2630	--	--	--	--	--	--	--	762	--	--	--	--	--	--	--
											21.49							
20S/26E-03F01 M 04/19/66 5050 1415 5050	--	8.3	2580	134	86	--	--	0.0	145	--	724	17	--	0.4	--	--	700	549
				6.49	7.11			3.03			27.42	4.27						
20S/26E-03F01 M 06/15/66 5050 0915 5050	41.5F	8.3	2580	227	64	--	--	0.0	190	--	701	--	--	--	--	--	432	677
				11.33	5.31			3.12			19.77							
20S/26E-03F01 M 07/26/66 5050 6950 5050	--	--	2590	--	--	--	--	--	--	--	706	16	--	--	--	--	--	--
											19.91	4.26						
20S/26E-03H01 M 03/11/66 5050 5050	--	--	1220	--	--	--	--	--	--	--	261	--	--	--	--	--	--	--
											7.36							

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	PH	EC	LAR FLD	LAR FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				F	B	A	SIO ₂	MILLIGRAMS PER LITER			
													CO ₃	HCO ₃	SO ₄	CL					TDS	TH	NCH	
205/26E-03M01 M 04/18/66 5050 1430	8.5	1170	75	39	3.74	3.22	--	--	6.0	177	--	239	28	0.2	--	--	--	348	193	--	--	--	--	--
205/26E-03M01 M 06/15/66 5050 0940	8.5	1170	110	25	5.79	2.11	--	--	6.0	176	--	245	26	--	--	--	--	395	241	--	--	--	--	--
205/26E-03M01 M 07/26/66 5050 0900	--	1220	--	--	--	--	--	--	--	--	--	258	26	--	--	--	--	--	--	--	--	--	--	--
205/26E-03M01 M 02/14/66 5050	--	1900	--	--	--	--	--	--	--	--	--	438	--	--	--	--	--	--	--	--	--	--	--	--
205/26E-03M01 M 06/15/66 5050 0935	8.4	2250	244	56	12.18	4.68	--	--	8.0	246	--	570	--	--	--	--	--	843	629	--	--	--	--	--
205/26E-03M01 M 07/26/66 5050 1000	--	2270	--	--	--	--	--	--	--	--	--	586	21	--	--	--	--	--	--	--	--	--	--	--
205/26E-03L01 M 05/17/66 5050 1325	8.2	1540	99	66	4.94	5.43	94	5.9	0.0	208	45	359	16	0.4	--	--	--	1140	520	--	--	1140	520	787
205/26E-03L01 M 06/15/66 5050 0925	8.3	1540	105	58	34	37	24	1	3.41	23	6	69	2	--	--	--	--	503	329	--	--	--	--	--
205/26E-03L01 M 07/26/66 5050 0955	--	1590	--	--	--	--	--	--	--	--	--	338	16	--	--	--	--	--	--	--	--	--	--	--
205/26E-03M01 M 12/28/65 5050	--	871	--	--	--	--	--	--	--	--	--	161	--	--	--	--	--	--	--	--	--	--	--	--
205/26E-03M01 M 02/14/66 5050	--	708	--	--	--	--	--	--	--	--	--	19	--	--	--	--	--	--	--	--	--	--	--	--
205/26E-03M01 M 03/02/66 5050 1145	7.2	715	32	24	1.60	1.97	62	2.7	0.0	162	22	105	23	0.0	--	--	--	383	179	--	--	383	179	46
	7.5	687	25	31	2.5	3.1	43	1	2.66	41	7	46	6	0.0	--	--	--	350	46	--	--	350	46	6

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE L.A.H. SAMPLER	PH F.L.D.	TEMP F.L.D.	EC F.L.D.	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS						
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	SUM	TH	NCH
20S/26F-03A01 1 06/14/66 5050 1330	8.5	695	38	1.3	--	--	--	6.0	145	--	107	16	--	0.1	--	--	149	20
20S/26F-03A01 4 06/15/66 5050 1005	8.6	684	59	4.3	--	--	--	8.0	151	--	103	--	--	--	--	--	165	28
20S/26F-03A01 4 07/26/66 5050 1045	--	685	--	--	--	--	--	--	--	--	104	16	--	--	--	--	--	--
20S/26F-03A01 4 07/26/66 5050 1110	--	1040	--	--	--	--	--	--	--	--	205	20	--	--	--	--	--	--
20S/26F-03A02 4 12/24/65 5050	--	1320	--	--	--	--	--	--	--	--	238	--	--	--	--	--	--	--
20S/26F-03A02 4 07/26/66 5050 1105	--	6430	--	--	--	--	--	--	--	--	667	138	--	--	--	--	--	--
20S/26F-03A01 4 06/10/66 5050 1315	8.3	1260	64	48	--	--	--	0.0	190	--	282	20	--	0.1	--	--	349	193
20S/26F-04A01 4 06/15/66 5050 1045	8.5	740	65	15	--	--	--	11	155	--	122	--	--	--	--	--	226	81
20S/26F-04A01 4 07/26/66 5050 1055	--	742	--	--	--	--	--	--	--	--	112	22	--	--	--	--	--	--
20S/26F-04A02 4 03/11/66 5050	--	1300	--	--	--	--	--	--	--	--	261	--	--	--	--	--	--	--
20S/26F-04A03 4 06/15/66 5050 1035	8.4	1170	110	19	--	--	--	4.0	186	--	232	--	--	--	--	--	353	194
20S/26F-04A03 4 07/26/66 5050	--	991	--	--	--	--	--	--	--	--	173	23	--	--	--	--	488	37

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLE	TEMP F/D	PH L/AH F/D	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS						
			FC L/AH F/D	CA	MG	NA K	CO3 HCO3	SO4 CL	NO3	F	B	SI02	SUM	TH	NCH		
205/26E-04012 "	--	8.5	991	69	35	--	--	8.0	178	--	180	--	--	--	--	319	160
09/15/66 5050				3.64	2.94			.27	2.92		5.08						
205/26E-09J01 "	--	--	830	--	--	--	--	--	--	--	164	--	--	--	--	--	--
12/28/65 5050											4.62						
205/26E-09J01 M	32 F	8.5	1080	109	34	--	--	15	168	--	197	--	--	--	--	413	250
06/15/66 5050				5.64	2.82			.50	2.76		5.56						
1100 5050																	
205/26E-10401 "	--	--	1440	--	--	--	--	--	--	--	250	--	--	--	--	--	--
12/28/65 5050											7.05						
205/26E-10401 M	32 F	8.6	777	72	23	--	--	11	159	--	118	--	--	--	--	275	126
06/15/66 5050				3.59	1.91			.37	2.61		3.33						
1100 5050																	
205/26E-11501 M	--	8.1	559	40	17	--	--	0.0	132	--	70	34	--	--	--	171	63
07/27/66 5050				2.00	1.42				2.16		1.97	.55					
07/27/66 5050																	
205/26E-21402 M	--	8.2	794	71	26	--	--	0.0	170	--	92	108	--	--	--	285	146
07/27/66 5050				3.44	2.16				2.79		2.59	1.74					
07/27/66 5050																	
205/26E-21001 "	--	8.3	524	42	15	--	--	0.0	140	--	54	47	--	--	--	167	92
07/27/66 5050				2.10	1.24				2.30		1.52	.76					
07/27/66 5050																	
205/26E-25001 "	--	8.4	720	51	26	--	--	8.0	240	--	43	70	--	--	--	237	27
07/27/66 5050				2.54	2.19			.27	3.94		1.21	1.13					
07/27/66 5050																	
205/26E-26L01 "	--	8.3	518	35	19	--	--	0.0	196	--	38	30	--	--	--	167	7
07/27/66 5050				1.75	1.59				3.21		1.07	.48					
07/27/66 5050																	
205/27E-19501 "	--	8.3	1060	99	33	--	--	0.0	227	--	141	106	--	--	--	384	198
07/27/66 5050				4.94	2.74				3.72		3.98	1.71					
07/27/66 5050																	
205/27E-20F01 M	--	8.4	1110	79	53	--	--	11	256	--	108	61	--	--	--	416	188
07/11/66 5050				3.94	4.38			.37	4.20		3.05	.98					
07/11/66 5050																	

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP F/D	PH L/AH F/D	FC L/AH F/D	CA	MG	NA	K	CO ₃	HCO ₃	MILLIGRAMS PER LITER PERCENT REACTIONS VALUE				MILLIGRAMS PER LITER TDS			
										NO ₃	CL	SO ₄	NO ₃	F	H	S102	TH SUM
205/27E-32D02 M 07/11/66 5050	--	8.2	836	67	30	--	--	0.0	279	--	43	62	--	--	--	292	63
				3.34	2.49				4.58		1.21	1.00					
205/27E-33E01 M 07/27/66 5050	--	8.6	597	37	17	--	--	4.0	147	--	49	54	--	--	--	165	0
				1.45	1.45			.27	3.07		1.38	.47					
215/19E-13D01 M 03/11/66 1300	87 F	7.9	1160	23	1.1	204	--	0.0	142	--	82	--	--	--	--	62	0
				1.15	.09	9.09			2.33		2.31						
215/19E-06D01 M 06/17/66 1040	23.5 C	8.5	1100	39	0.0	195	1.4	4.0	81	370	49	0.5	--	0.5	--	718	98
				1.95	8.44	H1	.05	.13	1.33	7.70	1.38	.01				699	25
				19				1	13	73	13						
215/27E-15H01 M 07/11/66 5050	--	8.6	819	41	44	--	--	13	256	--	60	41	--	--	--	287	56
				2.05	3.69			.43	4.20		1.69	1.30					
215/27E-27D01 M 03/30/66 1145	--	8.4	586	43	9.2	64	6.3	3.0	230	27	45	6.3	--	0.5	--	361	145
				2.15	.76	2.74	.16	.10	3.77	.56	1.27	.10				317	0
				17	13	44	3	2	65	10	22	2					
215/27E-27E01 M 03/30/66 1045	--	8.2	556	34	11	64	5.6	0.0	206	25	42	20	--	0.4	--	345	130
				1.70	.90	2.74	.17		3.38	.72	1.18	.32				304	0
				31	16	50	3		63	10	22	6					
225/17E-15M02 M 06/17/66 1230	27.5 C	8.3	1300	36	3.0	252	2.1	0.0	66	512	50	1.2	--	0.5	--	909	103
				1.80	.25	10.94	.05		1.08	10.65	1.41	.02				889	49
				14	2	84			8	41	11						
225/18E-01E01 M 03/11/66 1000	--	8.3	1290	44	1.4	220	1.7	0.0	84	240	170	1.2	--	0.6	--	762	116
				1140	2.20	12	9.57	.04	1.38	5.42	4.79	.02				760	47
				14	1	80			11	46	40						
225/19E-06D01 M 03/22/66 5050	--	8.2	911	19	0.0	160	1.0	0.0	95	305	20	0.0	--	0.6	--	582	47
				870	.95	6.94	.03		1.56	6.36	.56					553	0
				12		84			18	75	7						
225/19E-20D15 M 03/22/66 1160	76 F	8.2	2520	62	15	454	--	0.0	254	--	440	--	--	--	--	219	11
				2240	3.09	1.29	19.97		4.17		12.41						
235/23E-14E01 M 05/24/66 5050	--	4.3	389	11	2.5	--	--	0.0	212	--	13	0.6	--	--	--	38	0
				855	.21				3.48		.37	.01					

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER					F	R	S102	TDS SUM	TH NCH
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	CO ₃	HCO ₃	SO ₄	CL	NO ₃					
235/223E-23M01 M 05/24/66 5050	--	8.3	364	9.1 .65	0.3 .03	--	--	0.0 3.41	20R 3.41	--	4.8 .25	0.5 .01	1.0 0.05	--	--	--	--	--	--	24 0		
235/24E-13C03 M 05/24/66 5050	--	9.4	227	2.5 .12	0.1 .01	--	--	20 6.7	62 1.02	--	5.6 .16	1.1 .02	--	--	--	--	--	--	--	7 0		
235/24E-14R01 M 05/24/66 5050	--	8.3	256	14 .70	0.2 .02	--	--	0.0 1.82	111 1.82	--	4.8 .28	2.1 .03	--	--	--	--	--	--	--	36 0		
235/24E-22A01 M 07/06/66 1215 5050	HO F	6.7	453 435	2.8 .14	0.2 .02	--	--	12 6.0	234 3.84	--	14 .39	--	--	--	--	--	--	--	--	8 0		
235/24E-24A01 M 05/24/66 5050	--	9.1	313	4.3 .21	0.0 0.0	--	--	11 .37	77 1.26	--	20 .56	2.8 .04	--	--	--	--	--	--	--	11 0		
235/24E-27R01 M 05/24/66 5050	--	9.4	220	2.6 .13	0.3 .03	--	--	20 6.7	66 1.08	--	7.6 .21	0.5 .01	--	--	--	--	--	--	--	8 0		
235/24E-27J01 M 05/24/66 5050	--	8.3	598	35 1.75	2.1 .17	--	--	0.0 1.79	109 1.79	--	93 2.62	9.2 .15	0.2 0.01	--	--	--	--	--	--	96 7		
235/24E-29J01 M 05/24/66 5050	--	8.5	360	4.6 .23	0.8 .07	--	--	4.0 .13	172 2.82	--	13 .37	1.1 .02	1.1 0.06	--	--	--	--	--	--	15 0		
235/24E-32P01 M 05/24/66 5050	--	9.1	243	3.1 .15	0.7 .06	--	--	15 5.0	74 1.21	--	9.8 .28	0.6 .01	--	--	--	--	--	--	--	11 0		
235/24E-33R01 M 05/24/66 5050	--	8.8	284	4.2 .21	0.3 .03	--	--	10 .33	136 2.23	--	9.5 .27	0.8 .01	--	--	--	--	--	--	--	12 0		
235/24E-33J01 M 05/24/66 5050	--	--	905	12 .60	1.4 .12	--	--	16 5.3	272 4.46	--	110 3.10	1.7 .03	--	--	--	--	--	--	--	36 0		
235/24E-33K01 M 05/24/66 5050	--	8.7	350	4.4 .22	1.7 .14	--	--	10 .33	140 2.30	--	20 .56	0.6 .01	--	--	--	--	--	--	--	18 0		

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	PH LAH FLD	TEMP FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM			
			CA	MG	NA	K	CO ₃	HC0 ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TO ₅	TM	NCH			
235/24E-34J01 05/24/66 5050	8.9 299	12.0 .99	--	--	--	--	12	113	--	7.9	1.3	--	--	--	--	--	8	0		
235/24E-35J01 05/24/66 5050	9.1 273	2.0 .10	--	--	--	--	11	78	--	11	0.6	--	--	--	--	--	5	0		
235/24E-36A.2 05/24/66 5050	9.1 270	2.3 .11	0.3 .02	--	--	--	12	74	--	8.8	0.9	--	--	--	--	--	7	0		
235/24E-36B01 05/24/66 5050	8.8 575	22 1.10	0.7 .06	--	--	--	8.0	126	--	25	0.6	--	--	--	--	--	58	0		
235/25E-9002 02/01/66 1545	8.1 288 218	7.0 1.3 .11	4.3 80	0.6 .02	0.0 1	85	9.7	21	5.0	0.0	1.39	.20	5.9	0.8	0.0	62	9	26	4	
235/25E-14L01 05/24/66 5050	9.3 196	2.7 .13	0.0	--	--	--	12	62	--	4.4	1.3	--	--	--	--	--	7	0		
235/25E-14J01 05/24/66 5050	8.5 289	12 1.4	1.4 .12	--	--	--	4.0	123	--	12	9.2	--	--	--	--	--	36	0		
245/19E-23C02 09/01/66 1205	7.7 1200	515 42.58	518 95.70	2200 92	36 0.0	186	3090	3440	7.1	6.1	7.1	--	--	--	6.1	--	10500	3420		
245/24E-03A01 05/24/66 5050	9.4 199	2.5 .12	0.4 .03	--	--	--	14	66	--	6.4	0.6	--	--	--	--	--	8	0		
245/24E-04E01 07/06/66 1000	8.2 480	21 1.05	2.5 .21	--	--	--	0.0	148	--	57	--	--	--	--	--	--	63	0		
245/24E-04E02 07/06/66 1050	9.3 240	2.1 0.10	0.0 4	50 95	0.4 0.1	19	64	14	8.5	0.4	0.4	--	--	--	0.2	--	138	5		
245/24E-04E02 07/22/66 1850	-- 262	-- 1.0	-- 0.06	-- 0.1	-- 0.1	-- 28	-- 47	-- 13	-- 11	-- 11	-- 11	-- 11	-- 11	-- 11	-- 11	-- 11	-- 11	-- 11		

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STAFF WELL NUMBER DATE TIME	TEMP FLD	PH LAB FLD	FC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE					NO3	MILLIGRAMS PER LITER F B SI02			TH NCH	
								CO3	HCO3	SO4	CL	CO3		SO4	SUM			
245/24E-04R01 M 05/24/66 5050 5050	--	8.5	417	3.9	0.5	--	--	5.0	185	--	9.3	1.6	--	--	--	--	12	0
245/24E-04R02 M 04/29/66 5050 1500	--	8.5	1310	1.5	13	320	1.1	16	576	50	109	0.5	3.3	1.5	--	842	9	0
245/24E-04R01 M 05/24/66 5050 5050	--	8.5	726	11	1.1	--	--	8.0	186	--	124	1.6	--	--	--	--	32	0
245/24E-04R01 M 07/06/66 5050 0915	8.5 F	7.8	522	7.1	0.8	101	1.0	0.0	143	7.1	78	0.0	--	0.4	--	297	21	0
245/24E-09F01 M 04/29/66 5050 1430	--	9.0	4200	8.0	1.8	928	5.5	67	622	620	556	5.3	--	2.0	--	267	10	0
245/24E-09F02 M 05/24/66 5050 5050	--	9.0	1400	3.9	0.5	--	--	31	409	--	191	1.2	2.7	--	--	--	12	0
245/24E-15N01 M 04/29/66 5050 1520	--	8.8	617	1.1	0.7	131	1.0	16	207	27	53	1.0	--	.34	--	384	5	0
245/24E-15N01 M 05/24/66 5050 5050	--	9.0	608	2.1	1.1	--	--	16	207	--	51	0.5	--	--	--	--	10	0
245/24E-17J01 M 07/06/66 5050 1100	8.1 F	8.5	290	2.7	0.1	65	0.9	8.0	131	8.2	12	0.7	--	0.2	--	197	7	0
245/24E-20A01 M 05/24/66 5050 5050	--	8.5	3120	27	7.4	--	--	12	135	--	532	4.8	--	--	--	--	98	0
245/24E-20R01 M 05/24/66 5050 5050	--	8.8	946	6.4	3.1	--	--	16	54	--	125	3.0	--	--	--	--	29	0
245/24E-25F01 M 05/24/66 5050 5050	--	8.3	243	14	0.0	--	--	0.0	117	--	8.9	1.2	--	--	--	--	45	0

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH	EC FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS						
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	H	S102	SUM	TH	NCH
24S/24E-27A01 M 05/24/66 5050 5050	--	8.4	297	10	1.2	--	--	2.0	93	--	22	0.3	--	--	--	--	30	0
24S/24E-28P01 M 05/24/66 5050 5050	--	9.1	252	2.7	0.5	--	--	6.0	53	--	25	1.6	--	--	--	--	9	0
24S/24E-28R03 M 05/24/66 5050 5050	--	8.4	315	8.5	0.4	--	--	4.0	63	--	35	0.5	--	--	--	--	23	0
24S/24E-30P01 M 05/24/66 5050 5050	--	9.8	259	2.5	1.7	--	--	22	26	--	31	4.7	0.7	--	--	--	13	0
24S/25E-02H03 M 02/02/66 5050 1208 5050	65 F	8.0	2360 1040	506 25.25	16 1.32	52 2.26	34 .87	0.0 0.0	182 2.98	1100 22.90	55 1.55	0.2	--	2.4	--	2470 1855	1330 1182	0
24S/25E-17P01 M 05/24/66 5050 5050	--	8.3	230	20	3.1	--	--	0.0	113	--	4.3	4.5	0.3	--	--	--	63	0
24S/25E-17P02 M 05/24/66 5050 5050	--	8.3	226	16	3.1	--	--	0.0	113	--	4.3	1.8	--	--	--	--	53	0
24S/25E-20N01 M 05/24/66 5050 5050	--	8.3	269	22	4.4	--	--	0.0	134	--	4.8	6.6	--	--	--	--	73	0
24S/25E-30N01 M 05/24/66 5050 5050	--	8.5	916	64	12	--	--	10	429	--	22	11	--	--	--	--	210	0
25S/18E-03D01 M 04/06/66 5050 1100 5050	75 F	8.2	1800	78	49	197	4.4	0.0	273	605	110	13	--	1.8	--	1370	604	0
25S/18E-03M02 M 04/06/66 5050 1000 5050	77 F	7.1	1627	3.89	4.18	8.57	.11	0.0	4.47	12.82	3.10	.21	--	--	--	1243	380	0
25S/18E-03M02 M 07/20/66 5050 5121	74 F	8.6	1750	87	65	142	--	17	242	--	122	--	--	--	--	484	253	0

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH	EC LAB PLO	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER							MILLIGRAMS PER LITER		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	TDS	TH	NCH		
25S/18E-03N02 M 04/06/66 5050 1115 5050	80 F	8.3	3480	199	190	320	8.4	0.0	24.4	94.2	557	4.4	--	2.0	--	2580	1280			
25S/18E-05J01 M 04/06/66 5050 0900 5050	74 F	8.2	1380	76	54	150	2.4	0.0	250	361	102	5.9	--	1.5	--	964	410			
25S/19E-06C01 M 04/06/66 5050 1300 5050	81 F	8.1	5110	298	327	600	26	0.0	222	1310	1310	11	--	2.0	--	4550	2090			
25S/19E-06D01 M 04/06/66 5050 1400 5050	--	8.3	2480	80	112	334	4.6	0.0	233	834	207	46	--	2.3	--	1900	661			
25S/19E-06M01 M 04/06/66 5050 0900 5050	83 F	8.0	4440	182	232	568	20	0.0	276	1580	550	8.8	--	2.9	--	3460	1410			
25S/19E-06N01 M 04/06/66 5050 1430 5050	80 F	8.7	4080	185	228	482	18	4.3	294	1610	357	8.6	--	3.1	--	3320	1400			
25S/19E-06P01 M 04/06/66 5050 1445 5050	80 F	8.0	4200	164	202	557	25	0.0	252	1570	431	4.8	0.2	2.6	--	3320	1240			
25S/19E-07M01 M 04/06/66 5050 1500 5050	78 F	8.2	6150	177	306	988	12	0.0	410	2540	558	26	0.4	7.4	--	5140	1700			
25S/19E-07P01 M 04/06/66 5050 1515 5050	78 F	7.1	4827	808	22,09	35,32	33	0.0	706	47,47	11,79	18	--	8.2	--	4570	1510			
25S/19E-20D02 M 04/07/66 5050 0945 5050	--	8.2	5600	209	332	745	17	0.0	361	2480	458	0.0	--	7.2	--	4890	1890			
25S/19E-23B01 M 04/07/66 5050 1000 5050	73 F	8.5	3410	133	139	464	8.1	7.9	197	1250	303	20	--	3.0	--	2630	906			
25S/20E-06R01 M 03/02/66 5050 1500 5050	82 F	8.3	6200	62	107	1030	--	0.0	851	--	1440	--	--	--	--	--	648			

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE DATE TIME	WELL LAB SAMPLE#	NUMMED	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	S102	SUM	TDS
255/20F-35R01	M		43 F	8.3	6670	86	99	1100	--	0.0	1120	--	1640	--	--	--	--	623	0
03/02/66	5050				5750	4.29	8.16	47.85		18.36			46.26						
1615	5050																		
255/22E-26N01	A		--	8.3	2370	31	11	364	--	0.0	91	--	395	--	--	--	--	124	50
07/19/66	5050					1.55	.83	16.05		1.49			11.14						
1015	5121																		
255/23E-12R02	M		--	8.8	177	1.9	0.7	--	--	25	18	--	6.9	1.0	--	--	--	8	0
05/24/66	5050					.09	.06			.83	.30		.19	.02					
0500	5050																		
255/23E-26P01	M		73 F	9.4	184	2.1	0.9	37	--	23	28	--	8.2	--	--	--	--	9	0
07/18/66	5050					.10	.08	1.61		.77	.46		.23						
1125	5121																		
255/24E-10R01	M		75.5F	8.2	340	1.9	0.1	52	--	0.0	65	--	46	--	--	--	--	48	0
07/29/66	5050					.95	.01	2.26		1.06			1.30						
1545	5050																		
255/24E-11R01	M		72 F	8.2	410	2.9	1.6	50	--	0.0	83	--	52	--	--	--	--	79	11
07/24/66	5050					1.45	.13	2.14		1.36			1.47						
0830	5050																		
255/24E-14F01	M		77 F	8.9	291	1.1	2.5	50	--	7.0	37	--	37	--	--	--	--	38	0
07/26/66	5050					.55	.21	2.13		.23	.61		1.04						
0920	5050																		
255/24E-16G01	M		75 F	8.9	212	5.0	0.8	34	--	4.0	44	--	20	--	--	--	--	16	0
07/26/66	5050					.25	.07	1.65		.13	.72		.56						
1030	5050																		
255/24E-22R01	A		77 F	8.3	296	2.1	0.8	34	--	0.0	48	--	43	--	--	--	--	56	17
07/27/66	5050					1.05	.07	1.65		.79			1.21						
0845	5050																		
255/24E-25R01	M		91 F	9.1	197	4.3	1.0	36	--	1.3	37	--	12	--	--	--	--	15	0
07/26/66	5050					.21	.08	1.57		.43	.61		.34						
1245	5050																		
255/24E-27F01	M		70 F	9.1	270	1.4	1.2	40	--	8.0	38	--	23	--	--	--	--	40	0
07/27/66	5050					.70	.10	1.74		.27	.62		.65						
1015	5050																		
255/24E-27P01	A		74 F	8.7	162	3.6	0.2	33	--	4.0	53	--	7.6	--	--	--	--	10	0
0945	5050					.18	.02	1.44		.13	.87		.21						

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP FLD	PH LAB FLD	EC FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				NO ₃	MILLIGRAMS PER LITER TDS			
												CO ₂	CO ₃	SO ₄	CL		F	B	S102	SUM
P55/24E-35E01 07/26/66 5050 1415 5050	73.5F	8.0 8.2	413	32	0.7	44	--	0.0	50	--	39	--	--	--	--	--	--	--	--	83 42
P55/24E-35E02 M 07/27/66 5050 0915 5050	75 F	9.6 8.5	176	4.8 2.4	0.2 0.2	33 1.44	--	13 4.3	26 4.3	--	4.8 2.5	--	--	--	--	--	--	--	--	13 0
P55/25E-02M01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	11.3 .18	--	--	--	--	--	--	--
P55/25E-07R01 M 07/25/66 5050 1500 5050	72 F	8.2 8.0	530	44	0.7	66 2.87	--	0.0	74	--	67	--	1.89	--	--	--	--	--	--	113 52
P55/25F-10A01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	35.4 .57	--	--	--	--	--	--	--
P55/25E-10P01 M 07/25/66 5050 1600 5050	72 F	8.5 7.7	994	104	17	71 3.09	--	10 .33	126 2.06	--	126 3.55	--	--	--	--	--	--	--	--	330 210
P55/25E-11E01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	30.8 .50	--	--	--	--	--	--	--
P55/25E-11P01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	27.4 .64	--	--	--	--	--	--	--
P55/25E-11P01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	35.4 .57	--	--	--	--	--	--	--
P55/25E-12E01 M 06/17/66 5060 5060	--	--	--	--	--	--	--	--	--	--	--	--	52.7 .85	--	--	--	--	--	--	--
P55/25E-13A02 M 07/27/66 5050 0945 5050	--	7.9 8.6	498	35	1.1	55 2.39	--	0.0	35	--	98	--	2.76	--	--	--	--	--	--	92 63
P55/25E-22P01 M 07/27/66 5050 1350 5050	73 F	8.2 7.7	1110	116	0.0	94 4.24	--	0.0	93	--	130	--	3.67	--	--	--	--	--	--	290 214

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLO	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			TDS TM MCH
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	SUM					
P55/25E-23802 M 07/27/66 5050 1430 5050	--	8.2 8.2	578	39	0.1	64	--	0.0	99	--	74	--	--	--	--	--	--	--	--	98 17	
P55/25E-24K01 M 07/27/66 5050 1500 5050	--	8.3 8.3	633	34	3.2	84	--	0.0	66	--	76	--	--	--	--	--	--	--	--	98 44	
P55/25E-25001 M 07/27/66 5050 1535 5050	--	7.6 7.6	1590	149	20	132	--	0.0	82	--	228	--	--	--	--	--	--	--	--	508 441	
P55/25E-28H03 M 07/27/66 5050 1035 5050	--	7.7 7.7	1290	151	12	71	--	0.0	48	--	279	--	--	--	--	--	--	--	--	430 391	
P55/25E-31A01 M 07/27/66 5050 0910 5050	--	8.4 8.4	190	10	0.2	31	0.5	6.0	31	1.0	17	5.7	--	0.1	--	--	--	--	--	166 104 1	
P55/25E-36C01 M 07/27/66 5050	--	8.2	582	22	2.9	74	--	0.0	41	--	73	--	--	--	--	--	--	--	--	67 34	
P65/14E-14R01 M 04/08/66 5050 1040 5050	--	8.2 2036	2270	76	96	291	2.0	0.0	143	664	254	20	--	0.9	--	--	--	--	--	586 436	
P65/14E-18F03 M 04/07/66 5050 1335 5050	74 F	8.3	1890	64	43	235	2.5	0.0	244	570	142	31	--	1.5	--	--	--	--	--	501 301	
P65/21E-24R01 M 03/02/66 5050 1400 5050	--	8.3	5030	264	47	684	--	0.0	124	--	745	--	--	--	--	--	--	--	--	1030 926	
P65/22E-10G02 M 07/18/66 5050 1535 5121	75 F	9.1	251	4.0	0.0	50	--	15	45	--	21	--	--	--	--	--	--	--	--	10 0	
P65/23E-04J01 M 07/18/66 5050 1030 5121	73 F	7.5	2060	221	5.9	172	--	0.0	24	--	15.80	--	--	--	--	--	--	--	--	576 557	
P65/23E-17J01 M 07/16/66 5050 1350 5121	79.5 F	9.3	164	3.7	1.4	34	--	17	25	--	4.0	--	--	--	--	--	--	--	--	15 0	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME LAB SAMPLER	TEMP FLD	PH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS		
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	F	B	S102	TOS	SUM	TH	NCH		
265/24E-02F01 M 07/27/66 5050 1500 5050	75.5F	9.0	157	4.5 .22	0.2 .02	30 1.30	--	8.0 .27	42 .69	--	7.7 .22	--	--	--	--	--	--	--	--	--	12 0
265/24E-02H01 M 07/27/66 5050 1600 5050	74 F	8.9	167	6.4 .32	0.4 .04	25 1.22	--	5.0 .17	46 .75	--	9.8 .24	--	--	--	--	--	--	--	--	--	18 0
265/24E-02H02 M 07/27/66 5050 1530 5050	75 F	8.3	154	5.7 .28	0.2 .02	24 1.26	--	0.0 .00	58 .95	--	7.0 .20	--	--	--	--	--	--	--	--	--	15 0
265/24E-10R01 M 07/28/66 5050 0915 5050	74 F	9.1	151	3.0 .15	0.6 .05	30 1.30	--	10 .33	38 .62	--	6.6 .19	--	--	--	--	--	--	--	--	--	10 0
265/24E-23H01 M 07/28/66 5050 1145 5050	75.5F	8.8	164	11 .55	0.1 .01	30 1.30	--	4.0 .13	46 .75	--	9.3 .26	--	--	--	--	--	--	--	--	--	28 0
265/24E-23R01 M 07/28/66 5050 1245 5050	75 F	8.3	165	10 .50	3.6 .30	27 1.17	--	0.0 .00	59 .97	--	9.6 .27	--	--	--	--	--	--	--	--	--	40 0
265/24E-33R01 M 07/28/66 5050 1400 5050	75.5F	8.2	162	6.6 .33	1.1 .09	28 1.22	--	0.0 .00	62 1.02	--	10 .28	--	--	--	--	--	--	--	--	--	21 0
265/24E-34H01 M 07/28/66 5050 1330 5050	75.5F	8.7	144	5.4 .27	0.8 .07	27 1.17	--	6.0 .20	55 .90	--	6.0 .17	--	--	--	--	--	--	--	--	--	17 0
265/25E-02A01 M 07/26/66 5050 1000 5050	72.5F	8.3 7.3	899	87 4.34	8.9 .73	74 3.22	--	0.0 .00	68 1.11	--	162 4.57	--	--	--	--	--	--	--	--	--	254 198
265/25E-03H01 M 07/26/66 5050 1100 5050	73 F	7.8 8.2	537	44 2.20	2.9 .24	51 2.22	--	0.0 .00	35 .57	--	93 2.62	--	--	--	--	--	--	--	--	--	122 93
265/25E-08H01 M 07/26/66 5050 1515 5050	76 F	8.3 9.0	153	5.9 .29	0.4 .03	27 1.17	--	0.0 .00	54 .88	--	7.4 .21	--	--	--	--	--	--	--	--	--	16 0
265/25E-08P01 M 07/26/66 5050 1400 5050	75 F	8.2 8.8	161	9.6 .48	0.0 .00	27 1.17	--	0.0 .00	61 1.00	--	9.8 .25	--	--	--	--	--	--	--	--	--	24 0

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE SAMPLED	Temp F	PH Lah Fld	FC Lah Fld	CA	MG	NA	K	MILLIGRAMS PER LITER EQUIVALENT PER LITER				MILLIGRAMS PER LITER				TDS SUM
								CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI02	
265/25E-09R01 M 07/26/66 5050 1300 5050	74 F 8.4	8.4	164	10	0.2	27	--	4.0	52	--	7.8	--	--	--	--	260
265/25E-10M01 M 07/26/66 5050 1130 5150	73.5 F 8.2	8.2	248	19	0.6	31	--	0.0	55	--	18	--	--	--	--	505
265/25E-11F01 M 07/26/66 5050 0830 5050	76 F 7.7	8.0	210	14	0.2	28	--	0.0	46	--	16	--	--	--	--	360
265/25E-12P01 M 07/26/66 5050 1150 5050	71 F 8.1	8.0	254	22	3.2	24	--	0.0	108	--	11	--	--	--	--	680
265/25E-15M01 M 07/26/66 5050 1240 5050	74 F 8.7	8.8	154	9.6	0.2	24	--	5.0	51	--	6.9	--	--	--	--	250
265/25E-15M01 M 07/26/66 5050 1300 5050	72 F 8.2	8.3	202	16	1.2	24	--	0.0	85	--	6.9	--	--	--	--	450
265/25E-15P01 M 07/26/66 5050 1225 5050	71 F 8.2	8.0	183	14	1.5	25	--	0.0	80	--	7.8	--	--	--	--	410
265/25E-15R01 M 07/26/66 5050 1200 5050	71.5 F 8.2	8.5	204	17	0.4	24	--	3.0	84	--	8.9	--	--	--	--	440
265/25E-16M01 M 07/26/66 5050 1335 5050	72.5 F 8.4	8.4	170	11	0.8	27	--	2.0	68	--	7.9	--	--	--	--	310
265/25E-16R01 M 07/26/66 5050 1415 5050	70.5 F 8.2	8.2	201	17	0.1	27	--	0.0	90	--	7.8	--	--	--	--	430
265/25E-19F01 M 07/26/66 5050 1500 5050	--	7.9	155	6.8	0.2	25	--	0.0	57	--	7.8	--	--	--	--	180
265/25E-19J01 M 07/26/66 5050 1600 5050	73.5 F 8.4	8.1	178	11	0.1	26	--	0.0	67	--	8.3	--	--	--	--	280

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LOW SAMPLE	TEMP FLD	PH FLD	EC FLD	CA	MG	NA	K	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				NO3	F	B	S102	TOS SUM	TH NCH
								CO3	MCO3	SO4	CL						
26S/25E-19P01 M 07/27/66 5050 1530 5050	73 F 8.4	8.0 8.4	141	11 455	0.1 .01	24 1.22	--	0.0 1.06	65 --	--	8.8 .25	--	--	--	--	--	28 0
26S/25E-19P01 M 07/28/66 5050 1540 5050	74 F 8.9	8.0 8.9	142	4.3 .21	0.6 .05	26 1.13	--	0.0 .93	57 --	--	5.9 .17	--	--	--	--	--	13 0
26S/25E-25H01 M 07/28/65 5050 0935 5050	72 F 8.2	8.0 8.2	201	18 .90	0.0 1.00	23	--	0.0 1.29	79 --	--	11 .31	--	--	--	--	--	45 0
26S/25E-31H01 M 07/29/66 5050 0915 5050	71.5 F 8.2	8.1 8.2	279	24 1.20	0.2 .02	31 1.35	--	0.0 1.33	81 --	--	16 .45	--	--	--	--	--	61 0
26S/25E-31R01 M 07/29/66 5050 1000 5050	72 F 8.0	8.2 8.0	257	24 1.20	0.7 .06	30 1.30	--	0.0 1.38	84 --	--	12 .34	--	--	--	--	--	63 0
27S/20E-3H901 M 03/00/66 5050	10 C	9.1	245 320	0.8 .04	0.2 .02	62 2.70	1.9 .05	15 .50	10R 1.77	11 .31	4.0 .06	--	0.9	--	179 160	3 0	
27S/22E-04N01 M 03/00/66 5050	--	8.1	2420 2540	157 7.83	5.6 .47	384 16.70	--	0.0 2.06	126 --	--	420 17.49	--	--	--	--	415 312	
27S/22E-09O01 M 08/18/66 5050 1400 5121	64 F	--	2490	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27S/22E-16E01 M 07/12/66 5050 1425 5121	75 F	9.2	219	4.4 .22	3.8 .32	44 2.09	--	22 .73	66 1.08	--	6.6 .19	--	--	--	--	--	27 0
27S/22E-16A01 M 06/29/66 5050 1240 5121	--	7.6	2700 2200	166 83	0.0 0.0	412 17.92	1.7 .04	0.0 0.0	42 .69	512 10.66	545 15.37	0.5 .01	--	0.4	--	1660 1660	418 384
27S/22E-21P01 M 08/11/66 5050 1330 5121	64 F	8.2	3770	272 13.57	95 7.82	485 21.10	--	0.0 1.15	70 --	--	910 25.67	--	--	--	--	--	1070 1013
27S/22E-33L01 M 07/14/66 5050 1330 5121	64 F	8.1	4400	235 11.73	65 5.39	73H 32.10	--	0.0 4.39	268 --	--	769 21.69	--	--	--	--	--	857 638

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH	EC LAH FLD	CA	MG	NA	K	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				T4 NCH
								C03	HCO3	SO4	CL	C03	HCO3	SO4	CL	F	H	S102	SUM	
275/22E-36001 M 07/21/66 5050 0840 5121	76.5F	7.9	1430	38	0.5	312	--	0.0	35	--	350	--	--	--	--	--	--	--	97	
				1.90	.04	13.57			.57		9.87								69	
275/23E-07601 M 07/21/66 5050 0945 5121	74 F	8.2	1380	36	5.6	192	--	0.0	54	--	331	--	--	--	--	--	--	--	113	
				1.80	.46	8.35			.88		4.34								69	
275/23E-09R01 M 07/14/66 5050 1050 5121	76 F	8.3	1490	67	0.2	244	--	0.0	95	--	173	--	--	--	--	--	--	--	168	
				3.34	.02	10.79			1.56		4.88								90	
275/23E-14P01 M 07/18/66 5050 0925 5121	70 F	8.9	380	10	2.6	64	--	15	40	--	56	--	--	--	--	--	--	--	36	
				.50	.22	2.74		.50	.66		1.58								0	
275/23E-15R01 M 07/13/66 5050 1415 5121	76 F	9.4	194	2.8	0.7	41	--	14	34	--	12	--	--	--	--	--	--	--	10	
				.14	.06	1.74		.60	.56		.34								0	
275/23E-22G01 M 07/13/66 5050 1350 5121	74 F	9.0	708	24	0.0	122	--	7.0	32	--	77	--	--	--	--	--	--	--	70	
				1.40		5.31		.23	.52		2.17								33	
275/23E-23Q01 M 07/13/66 5050 1305 5121	76 F	8.2	219	2.5	1.0	36	--	0.0	62	--	26	--	--	--	--	--	--	--	10	
				.12	.08	1.57			1.02		.73								0	
275/23E-24R01 M 07/13/66 5050 1120 5121	74 F	7.6	847	51	2.2	113	--	0.0	34	--	108	--	--	--	--	--	--	--	136	
				2.54	.16	4.78			.56		3.05								108	
275/23E-24Q01 M 07/13/66 5050 1100 5121	76 F	8.2	535	24	1.2	77	--	0.0	52	--	51	--	--	--	--	--	--	--	65	
				1.20	.10	3.35			.85		1.44								22	
275/23E-25Q01 M 07/13/66 5050 1150 5121	74 F	8.2	177	2.3	0.4	33	--	0.0	65	--	11	--	--	--	--	--	--	--	7	
				.11	.03	1.44			1.06		.31								0	
275/23E-25R01 M 07/13/66 5050 1015 5121	74 F	8.1	251	4.1	0.7	46	--	0.0	55	--	28	--	--	--	--	--	--	--	13	
				.20	.06	2.00			.30		.79								0	
275/23E-34A01 M 07/13/66 5050 0925 5121	77 F	8.3	211	3.6	0.5	33	--	0.0	63	--	17	--	--	--	--	--	--	--	11	
				.18	.04	1.44			1.03		.48								0	

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAR FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TDS SUM	TH NCH
				CA	MG	NA	K	CO ₃	HCO ₃	SU ₄	CL	NO ₃	F	B	S102		
27S/24E-03R01 M 07/29/66 5050 1230 5050	74 F	8.0 8.1	268 LAR	25 1.25	0.4 .03	26 1.13	--	0.0 1.16	71 .73	--	26 .73	--	--	--	--	--	44 6
27S/24E-04C01 M 07/29/66 5050 1015 5040	76 F	7.9	155	6.1 .30	0.2 .02	26 1.13	--	0.0 .93	57 .26	--	9.3 .26	--	--	--	--	--	16 0
27S/24E-04H01 M 07/29/66 5050 1000 5050	75 F	7.9	275	21 1.05	0.4 .03	32 1.39	--	0.0 .90	55 .85	--	30 .85	--	--	--	--	--	54 9
27S/24E-04R01 M 07/29/66 5050 0915 5040	75 F	7.9	224	18 .90	0.0 1.22	24 1.22	--	0.0 .93	57 .65	--	23 .65	--	--	--	--	--	45 0
27S/24E-05H01 M 07/29/66 5050 1100 5050	77 F	8.0 8.4	143 LAR	4.1 .20	0.2 .02	26 1.13	--	0.0 .98	60 .19	--	6.9 .19	--	--	--	--	--	11 0
27S/24E-06P01 M 07/29/66 5050 1130 5050	76.5F	8.0	145	4.1 .20	0.7 .06	27 1.17	--	0.0 .93	57 .22	--	7.8 .22	--	--	--	--	--	13 0
27S/24E-07A01 M 07/26/66 5040 1315 5050	75 F	8.0	354	16 .80	0.5 .04	51 2.22	--	0.0 .61	37 .61	--	70 1.97	--	--	--	--	--	42 12
27S/24E-07H01 M 07/29/66 5050 1345 5050	77 F	7.8 8.2	451 LAR	35 1.75	0.4 .03	47 2.04	--	0.0 .49	30 .49	--	71 2.00	--	--	--	--	--	89 64
27S/24E-08H01 M 07/29/66 5050 1430 5050	75 F	6.2	152	6.7 .33	0.4 .03	26 1.13	--	0.0 .90	55 .23	--	4.1 .23	--	--	--	--	--	18 0
27S/24E-09A01 M 09/13/66 5050 1315 5050	--	8.1	298	27 1.35	0.6 .05	30 1.30	0.9 .62	0.0 1.02	62 .73	35 26	26 .73	0.2 0.1	0.1	--	--	--	199 166
27S/24E-16H01 M 09/13/66 5050 0840 5050	--	6.7	168	11 .55	6.2 .51	25 1.09	--	3.0 .10	61 1.00	--	3.7 .24	--	--	--	--	--	53 0
27S/24E-16R01 M 09/13/66 5050 0905 5050	--	8.7	187	10 .50	3.6 .30	27 1.17	--	5.0 .17	52 .85	--	16 .45	--	--	--	--	--	40 0

TABLE B-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLE	PH FLD	TEMP FLD	FC LAR FLD	CA	MG	NA	K	L	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	MILLIGRAMS PER LITER		
																	TDS	SUM	NCH
275/245-19N01 A 09/14/66 5050 0800	9.3		166	4.3	2.2	32	--	--	12	39	--	9.4	--	--	--	--	--	9.4	20
275/245-32J01 M 09/12/66 5050 1610	8.6		293	27	0.3	37	--	--	6.0	38	--	38	--	--	--	--	--	1.07	69
275/255-05P01 M 09/13/66 5050 1215	8.4		255	27	1.9	26	--	--	2.0	108	--	9.6	--	--	--	--	--	.27	74
275/255-06N01 M 09/13/66 5050 1245	8.3		283	32	2.2	27	--	--	0.0	117	--	10	--	--	--	--	--	.28	89
275/255-19N01 M 09/14/66 5050 0950	8.0		449	55	2.5	24	--	--	0.0	110	--	27	--	--	--	--	--	.76	148
275/255-22J01 M 09/14/66 5050 1045	7.9		352	38	7.0	22	--	--	0.0	108	--	17	--	--	--	--	--	.48	124
275/255-22L01 M 09/14/66 5050 1030	7.8		518	60	9.8	26	--	--	0.0	124	--	31	--	--	--	--	--	.87	190
275/255-26G01 M 09/14/66 5050 1145	7.3		436	51	7.4	24	--	--	0.0	149	--	20	--	--	--	--	--	.56	158
275/255-33M01 M 09/14/66 5050 1430	7.9		633	37	1.3	32	--	--	0.0	163	--	32	--	--	--	--	--	.90	248
275/255-35A01 A 09/14/66 5050 1120	7.8		468	56	11	25	--	--	0.0	134	--	25	--	--	--	--	--	.70	186
275/255-35L11 M 09/14/66 5050 1530	7.9		577	71	10	24	--	--	0.0	115	--	36	--	--	--	--	--	1.02	220
275/265-22M01 M 03/15/66 5050 5713	7.6		1250	106	1.4	91	5.5	0.0	121	11	292	11	292	0.0	.35	--	--	8.24	856
				5.33	1.19	3.94	.14	1.98	.24	1.9	.2	.79							582

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME LAB SAMPLER	PH LAB FLO	EC LAB FLO	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER					MILLIGRAMS PER LITER TDS SUM				
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI02	TH	DS	SUM	NCH				
275/26E-22H01 M 09/09/66 5703	-- 7.6	952	60	4.9	93	2.4	0.0	89	15	189	--	0.2	.16	--	452	170						
			2.99	.40	4.08	.06	1.46	.32	5.34						410	97						
			40	5	54	1	21	4	75													
275/26E-22H01 M 09/09/66 5050	-- 7.5	834	60	5.7	88	2.2	0.0	89	30	178	1.7	--	0.0	--	473	173						
			2.99	.47	3.83	.06	1.46	.62	5.02		.03				409	100						
			41	6	52	1	20	9	70													
275/26E-22G01 M 04/28/66 5803	-- 8.5	370	16	2.7	40	0.0	7.8	60	9.6	46	--	0.2	.10	--	178	52						
			.82	.22	1.74		.26	.98	.20	1.32					153	0						
			29	8	63		9	36	7	48												
275/26E-22G01 M 09/14/66 5803	-- 8.6	323	12	0.2	45	1.0	9.0	57	12	39	--	0.2	.08	--	163	32						
			.62	.02	1.99	.03	.30	.93	.26	1.12					149	0						
			23	1	75	1	11	36	10	43												
275/26E-22G01 M 09/14/66 5050	-- 8.1	290	12	0.0	43	1.2	0.0	75	21	32	1.1	--	0.1	--	176	29						
			.60		1.87	.03		1.23	.44	.90	.02				147	0						
			24		75	1		47	17	35	1											
275/26E-25J01 M 03/15/66 5803	-- 8.2	667	25	3.2	104	5.0	3.6	68	50	132	--	0.2	.29	--	392	76						
			1.26	.26	4.55	.13	.12	1.12	1.06	3.74					359	14						
			20	4	73	2	2	19	18	62												
275/26E-27A01 M 10/06/65 5803	-- 8.9	455	8.0	3.2	66	10	19	97	4.8	41	--	0.9	.14	--	216	33						
			.40	.26	2.88	.28	.64	1.59	.10	1.18					203	0						
			10	7	75	7	18	45	3	34												
275/26E-27A01 M 04/28/66 5803	-- 8.7	417	8.4	2.2	66	0.0	16	69	12	54	--	0.6	.19	--	215	30						
			.42	.18	2.91		.56	1.13	.25	1.54					196	0						
			12	5	83		16	32	7	44												
275/26E-27A01 M 09/14/66 5803	-- 8.5	526	8.4	2.0	96	0.9	12	136	15	62	--	1.0	.42	--	270	29						
			.42	.16	4.18	.02	.40	2.23	.32	1.76					265	0						
			9	3	87		8	47	7	37												
275/26E-27A01 M 09/14/66 5050	-- 8.3	469	9.9	0.8	85	0.8	0.0	161	11	53	0.8	--	0.5	--	276	28						
			.49	.07	3.70	.02		2.64	.23	1.50	.01				241	0						
			11	2	86			60	5	34												
275/26E-27B01 M 03/15/66 5803	-- 7.5	2000	272	47	28	9.0	0.0	168	105	489	--	0.0	.45	--	1172	876						
			13.57	3.93	1.25	.23		2.76	2.20	13.80					1035	738						
			71	21	7	1		15	12	74												
275/26E-27B01 M 09/09/66 5803	-- 7.4	2381	282	49	16	5.6	0.0	179	103	489	--	0.2	.12	--	1054	911						
			14.11	4.09	.74	.14		2.94	2.16	13.80					1036	764						
			74	21	4	1		16	11	73												

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER								MILLIGRAMS PER LITER								TH TDS SUM
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	SUM				
275/226E-27R01 M 09/09/66 5050 1200 5050	--	8.1	2150	288	46	53	6.9	0.0	184	167	473	24	--	0.0	--	1280	908			
				14.37	3.77	2.30	.18		3.02	3.48	13.34	.39				1148	757			
				70	18	11	1		15	17	66	2								
275/226E-27H02 M 06/16/66 5050 1550 5050	77.5F	8.3	432	22	0.0	62	1.7	0.0	99	34	57	1.1	--	0.1	--	241	55			
		8.6	395	1.10	2.70	.04			1.62	.71	1.61	.02				226	0			
				29	70	1			.41	18	41	1								
285/222E-10R01 M 03/03/66 5050 1300 5050	16.5C	8.2	1770	152	9.4	228	--	0.0	304	--	130	--	--	--	--	--	418			
			1596	7.58	.77	9.92			4.98		3.67						169			
285/222E-10R01 M 08/11/66 5050 0915 5050	6H F	--	1710	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
285/222E-11N01 M 04/15/66 5806 5702	--	7.1	--	169	36	36	--	0.0	381	778	182	1.3	--	1.25	--	1960	584			
				8.86	2.98	1.57			6.25	16.18	5.13	.02				1391	272			
				85	23	12			23	59	19									
285/222E-11N02 M 09/14/66 5050 0645 5050	--	6.3	2660	203	60	332	--	0.0	383	--	190	--	--	--	--	--	787			
				10.13	5.01	14.44			6.28		5.36						443			
285/222E-11O01 M 08/11/66 5050 0925 5050	6H F	8.5	1190	79	36	154	--	4.0	86	--	144	--	--	--	--	--	347			
				3.94	3.00	6.70			.13	1.41	4.06						270			
285/222E-22N01 M 08/11/66 5050 0900 5050	--	8.1	4120	247	69	568	--	0.0	52	--	1080	--	--	--	--	--	904			
				12.32	5.75	25.58			.85		30.47						862			
285/222E-25N01 M 08/18/66 5050 1530 5050	--	--	1060	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
285/222E-26J01 M 08/10/66 5050	--	8.3	1110	97	--	135	--	0.0	211	--	61	--	--	--	--	--	--			
				4.84	5.87				3.46		1.72									
285/222E-35P01 M 08/11/66 5050 0835 5050	71 F	--	639	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
285/232E-25P01 M 03/03/66 5050 1330 5050	20 C	8.5	507	20	0.2	75	--	2.0	44	--	63	--	--	--	--	--	51			
			500	1.00	.02	3.26		.07	.72		1.78						12			

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	PH	EC LAB FLD	CA	MG	NA	K	MILLIGRAMS PER LITER					MILLIGRAMS PER LITER						
							MINERAL CONSTITUENTS IN PERCENT	CO ₃	HCO ₃	SD ₄	CL	NO ₃	F	B	SI02	SUM	TDS	TH
29S/23E-07001 M 08/16/66 5050 1315	8.2	3110	208	63	425	--	0.0	131	--	731	--	--	--	--	--	--	781	674
			10.38	5.2*	18.49			2.15		20.61								
29S/23E-08R03 M 08/16/66 5050 1305	8.3	722	71	--	82	--	0.0	182	--	43	--	--	--	--	--	--	--	--
			3.54		3.57			2.98		1.21								
29S/23E-16N01 M 03/03/66 5050	8.2	1430	137	11	137	1.8	0.0	129	235	248	0.1	--	0.4	--	--	--	899	387
			6.84	.90	5.96	.05		2.12	4.89	6.99							834	281
			50	7	43			15	35	50								
29S/23E-16N02 M 03/03/66 5050	7.9	308	3.6	0.0	55	0.5	0.0	36	10	68	0.0	--	0.1	--	--	--	168	9
			.18		2.39	.01		.59	.21	1.92							155	0
			7		93			22	8	71								
29S/23E-17G01 M 08/22/66 5050 1120	8.2	1490	172	--	117	--	0.0	219	--	255	--	--	--	--	--	--	--	--
			8.58		5.09			3.59		7.19								
29S/23E-17P01 M 03/03/66 5050 1545	8.0	3770	253	35	516	4.4	0.0	128	742	729	0.2	--	1.9	--	--	--	2420	776
			3360	12.62	2.88	22.45	.11	2.10	15.43	20.56							2344	672
			33	8	59			6	41	54								
29S/23E-24H02 M 03/15/66 5050	8.1	710	42	3.6	99	--	0.0	115	--	43	--	--	--	--	--	--	120	26
			640	2.10	4.31			1.49		1.21								
29S/23E-24H02 M 08/10/66 5050 1505	8.6	549	33	2.8	74	--	5.0	106	--	33	--	--	--	--	--	--	94	0
			1.65	.23	3.22			.17	1.74	.93								
29S/23E-34A01 M 08/06/66 5050 1440	8.3	2370	101	3.4	397	--	0.0	111	--	50	--	--	--	--	--	--	266	175
			5.04	.28	17.27			1.82		1.41								
29S/27E-34N01 M 02/04/66 5050 1301	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			1301															
29S/27E-34N01 M 02/04/66 5050 1301	9.3	198	5.2	0.7	34	1.3	15	73	3.4	5.8	0.0	--	0.0	--	--	--	111	16
			.26	.06	1.65	.03	.50	1.20	.07	.16							105	0
			13	3	83	2	26	82	4	8								
29S/27E-34N03 M 02/04/66 5050 1352	8.3	219	19	4.7	19	1.8	0.0	96	14	8.2	1.0	--	0.1	--	--	--	130	67
			180	.95	.39	.83	.05	1.57	.29	.23	.02						115	0
			43	18	37	2	74	14	11	1								

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER TDS SUM				
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TH	NCH	
29S/27E-3*NO4 M 02/04/66 5050 1334	62.5F	8.0	361 290	40 2.00	7.8 .64	26 1.13	3.3 .08	0.0	128	36	26	2.2	0.0	--	0.0	--	245 206	132 27
30S/23E-01C03 M 03/15/66 5050 1150	--	8.7	699 650	14 .70	0.2 .02	116 5.05	--	3.0 .10	26 .43	--	166 4.68	--	--	--	--	--	--	36 10
30S/23E-01C03 M 08/10/66 5050 1440	71 F	--	702	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30S/24E-03E01 M 03/04/66 5050 1130	20 C	8.4	965 880	82 4.09	5.4 .45	114 4.96	--	6.0 .20	211 3.46	--	49 1.38	--	--	--	--	--	--	227 44
30S/24E-05A01 M 08/10/66 5050 1330	48 F	--	1070	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30S/24E-08G01 M 08/10/66 5050 1425	--	8.6	3470 12.33	247 10.47	127 18.66	429	--	15 .50	190 3.12	--	660 18.81	--	--	--	--	--	--	1140 960
30S/25E-01M01 M 03/04/66 5050 1045	--	8.2	271 270	32 1.60	3.4 .28	21 .91	--	0.0	116 1.90	--	10 .28	--	--	--	--	--	--	94 0
31S/24E-13J03 M 06/28/66 5050 1200	66 F	7.7	4060 2800	568 28.34	20 1.04	444 19.49	5.6 .14	0.0	88 1.44	2020 42.02	238 6.71	0.0	--	2.0	--	3480 3345	1500 1429	
31S/24E-13J04 M 06/28/66 5050 1200	66 F	8.0	2340 1800	284 14.17	19 1.56	254 11.05	3.1 .08	0.0	104 1.71	1050 21.84	123 3.47	0.0	--	1.4	--	1870 1785	787 702	
31S/24E-13J05 M 06/28/66 5050 1200	66 F	8.3	1250 1050	38 1.90	5.6 .46	224 9.92	1.7 .04	0.0	161 2.64	360 7.49	75 2.12	0.2	--	1.4	--	814 789	118 0	
31S/24E-13P04 M 06/28/66 5050 1520	66 F	8.0	13600 7000	532 26.55	190 15.62	2740 119.19	15 .38	0.0	142 2.33	4540 94.43	2250 63.45	63	10.0	--	11100 10410	2110 1995		
31S/24E-24N03 M 06/27/66 5050 1530	69 F	7.8	34000 31000	1070 53.39	1130 92.89	6410 278.84	25 .64	0.0	930 15.25	4040 86.32	11500 30.03	1.7	--	6.9	--	24600 24679	7370 6613	

TABLE E-2
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH	EC	L/S	FLD	CA	MG	NA	K	MILLIGRAMS PER LITER						MILLIGRAMS PER LITER			
										CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	SI0 ₂	TOS	SUM
31S/24E-24P02 M 06/08/66 5050 1825 5050	69 F	8.0	43900	525	187	13000	37	0.0	368	19600	6860	21	--	44.0	--	40300	2080	40454	1779
			9500	26.20	15.3	7585.30	.95		6.0	47.68	193.45	.34							
										1	67	32							
31S/24E-25E03 M 06/08/66 5050 1330 5050	71 F	8.1	52200	490	1890	14200	24	0.0	645	22000	11600	25	--	42.0	--	57000	9010	50587	8488
			55000	24.45	15.3	8617.0	.61		10.58	457.60	327.12	.40							
										1	58	41							
31S/24E-25E04 M 06/08/66 5050 1430 5050	67 F	7.8	29400	1340	982	4820	26	0.0	540	3180	10100	2.8	--	6.6	--	21100	7390		
			26000	66.87	80.7	2209.67	.67		8.86	66.14	284.82	.05							
										2	18	79							
31S/24E-26L03 M 07/12/66 5050 1500 5050	--	7.8	5920	570	116	827	5.3	0.0	108	2510	673	0.2	--	5.5	--	4950	1900		
										2	72	26							
31S/24E-28B01 M 03/04/66 5050 1400 5050	76 F	8.1	6360	622	145	725	16	0.0	91	2280	907	89	--	3.6	--	4530	2150		
			5520	31.04	11.92	31.54	.41		1.49	47.42	25.58	1.43							
										2	62	34							
31S/24E-36D03 M 05/27/66 5050 1300 5050	70 F	7.8	74000	880	1920	18600	70	0.0	502	10900	27300	9.0	--	1.8	--	62600	10100		
			50000	43.91	1157.82	809.10	1.79		8.23	2226.72	769.86	.14							
										1	23	77							
31S/24E-36D04 M 05/27/66 5050 1300 5050	70 F	7.7	23500	538	643	4960	28	0.0	716	6300	5330	0.5	--	2.4	--	19500	3990		
			60000	26.85	52.85	215.76	.72		11.74	131.04	150.31	.01							
										4	45	51							
31S/24E-36D06 M 05/27/66 5050 1400 5050	69 F	7.6	14800	399	629	2500	22	0.0	999	3900	2860	10	--	4.0	--	12200	3560		
			15000	19.41	51.70	108.75	.56		16.38	81.12	80.65	.16							
										9	45	45							
31S/24E-36D07 M 05/27/66 5050 1400 5050	69 F	7.6	20600	471	888	3500	27	0.0	111	4670	5330	1.1	--	5.4	--	16700	4830		
			20500	23.50	72.99	152.25	.69		1.82	97.14	150.31	.02							
										1	39	60							
31S/24E-36D08 M 05/27/66 5050 1400 5050	69 F	7.6	28900	544	1140	5080	30	0.0	106	6650	8620	8.0	--	1.1	--	23200	6040		
			28000	27.15	93.71	220.98	.77		1.74	96.72	3.08	.13							
										1	28	71							
31S/24E-36M04 M 07/13/66 5050 1400 5050	--	7.8	5860	493	80	870	12	0.0	74	1940	872	234	--	4.1	--	4450	1560		
										1.21	40.35	24.59	3.77						
										2	58	35	5						
31S/25E-05A01 M 02/09/66 5050 1600 5050	--	8.3	1500	64	7.9	220	2.4	0.0	127	264	214	0.7	--	0.8	--	900	192		
			1260	3.19	.65	9.57	.06		2.08	5.49	6.03	.01							
										15	40	44							

TABLE E-2

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER
DATE LAB
TIME SAMPLER

31S/25E-16E01 M
04/08/66 5050
1105

31S/27E-14F01 M
03/04/66 5050
0900

TEMP	PH	EC	MINERAL	MINERAL	MINERAL	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			TH						
FLD	LAH	LAB	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	SUM	TDS	NCH	
24.0C	6.3	2190	180	42	266	--	0.0	91	--	158	--	--	--	--	--	--	624	
			8.98	3.50	11.57		1.49			4.46							550	
--	8.4	644	48	3.7	37	--	4.0	173	--	18	--	--	--	--	--	--	135	
		580	2.40	.30	1.61		.13	2.84		.51							0	

TABLE E-3

TRACE MINERAL ANALYSES OF GROUND WATER

This table is a tabulation of the spectrographic analyses performed by the U. S. Geological Survey laboratory in Sacramento. The following is a list of the letters and their meanings which appear on the table:

M = Milligrams per liter

U = Micrograms per liter

Y = Less than the amount indicated

Z = Less than or equal to the
amount indicated

TABLE E-3

TRACED MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DATE	LAR	AL LI	AS MN	HF MO	BI NI	BR PB	CD TI	CO V	CH ZN	CU	FE	GA	GE	
025/10E-14F01	M	07-14-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/07E-13A01	M	06-24-63	5050	--	--	--	--	--	--	--	--	--	--	--	--	--
035/09E-08K01	M	04-04-66	5050	--	00.00M	--	--	--	--	--	00.00M	--	--	--	--	--
035/09E-09P01	M	04-10-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-16N02	M	04-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-17001	M	04-10-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-17P01	M	04-11-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--	--
035/09E-19C01	M	06-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-19J01	M	04-10-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-20C01	M	06-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-20J01	M	06-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-20K01	M	04-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-21P01	M	04-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-22N01	M	04-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-24C01	M	04-14-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-28M01	M	04-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
035/09E-29H01	M	04-04-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--

TABLE B-3
TRACF MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAR	AL LI	AS MN	BF MO	BI NI	HR PH	CD TI	CU V	CH ZN	CU	FE	GA	GE
03S/09E-29D02	M 06-14-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-29G01	M 06-09-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
03S/09E-29L01	M 06-09-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
03S/09E-29P01	M 06-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-31F01	M 06-09-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-32A01	M 06-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-32F01	M 06-09-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-32G01	M 06-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/09E-32P01	M 06-07-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
03S/11E-28F01	M 07-15-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
04S/09E-03B01	M 06-17-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
04S/09E-03D01	M 06-17-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
04S/09E-05H01	M 06-17-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
04S/09E-05J01	M 06-16-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
04S/09E-05P01	M 06-16-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
04S/09E-06R01	M 06-10-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
04S/09E-09K01	M 06-17-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--

TABLE E-3

TRACE MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DATE	LAH	AL LI	AS MN	BF MO	BI NI	RR PH	CD TI	C0 V	CH ZN	CU	FE	GA	GE
04S/09E-09001	M	06-16-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
04S/10E-10F01	M	07-15-66	5050	--	00.02M	--	--	--	--	--	--	--	--	--	--
05S/08E-30L01	M	06-21-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
05S/08E-30001	M	06-21-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
05S/11E-29F01	M	05-24-66	5000	0023.0U	--	001.30UY 00.670Y	003.00 003.30Y	--	003.30Y 01.4.7U	003.30Y 01.7U	006.6U 0013.0Y	0012.0U	006.3U	0013.0Y	00.670Y
06S/10E-24L01	M	05-25-66	5000	0022.0U	--	001.30UY 000.8U	006.70Y 0051.0U	--	003.30Y 001.30Y	005.3U 0020.0U	003.30Y 0013.0Y	003.30Y 0014.0U	001.3U 001.3U	001.3U	00.670Y
06S/11E-27K01	M	05-24-66	5000	0031.0U	--	003.30UY	00.670Y	--	003.30Y	003.30Y	0017.0U	003.30Y	0037.0U	0013.0Y	00.670Y
06S/12E-21N01	M	05-24-66	5000	0025.0U	--	001.30UY 00.670Y	00.670Y 003.7U	--	003.30Y 001.8U	003.30Y 003.3U	003.30Y 0013.0Y	001.4.0U	0016.0U	0013.0Y	00.670Y
06S/13E-06N01	M	05-24-66	5000	0022.0U	--	001.30UY 00.670Y	00.670Y	--	003.30Y 001.30Y	003.30Y 001.4U	003.30Y 0013.0Y	0013.0U	0016.0U	0013.0Y	00.670Y
06S/13E-32N02	M	05-24-66	5000	0093.0U	--	003.30UY	00.670Y	--	003.30Y	003.30Y	0024.0U	003.30Y	0011.0U	0013.0Y	00.670Y
07S/08E-13R01	M	06-24-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
07S/08E-18R01	M	05-17-66	5050	--	00.01M	--	--	--	--	--	--	--	00.01M	--	--
07S/09E-19R01	M	06-24-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
07S/11E-19A01	M	05-24-66	5000	0040.0U	--	001.30UY 00.670Y	00.670Y 004.4.0U	--	003.30Y 001.30Y	003.30Y 0015.0U	003.30Y 0013.0Y	003.30Y	0024.0U	0013.0Y	00.670Y
07S/13E-04R01	M	05-23-66	5000	0034.0U	--	001.30UY 00.670Y	003.1U 004.7U	--	003.30Y 001.30Y	005.6U 0016.0U	003.30Y 0013.0Y	003.30Y	0017.0U	0013.0Y	00.670Y
07S/13E-22C01	M	05-23-66	5000	0031.0U	--	001.30UY 00.670Y	00.670Y	--	003.30Y 001.30Y	0011.0U 007.3U	003.30Y 0013.0Y	003.30Y	008.7U	001.3U	00.670Y
07S/13E-31M01	M	05-23-66	5000	0023.0U	--	001.30UY 00.670Y	00.670Y 003.1U	--	003.30Y 001.5U	003.30Y 0033.0U	005.1U 0013.0Y	0013.0U	0024.0U	0013.0Y	00.670Y

TABLE E-3
TRACE MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DATE	LAB	AL LI	AS MN	HF MO	HI NI	RR PH	CO TI	CO V	CR ZN	CU	FE	GA	GE
07S	14E-09A01	M 05-23-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
07S	14E-09B01	M 05-23-66	5000	0022.U	--	001.3UY 00.67UY	00.67UY 00.43.U	--	003.3UY 001.3UY	003.3UY 0015.U	003.3UY 0013.UY	003.3UY	0013.U	0013.UY	00.67UY
07S	15E-18K01	M 05-23-66	5000	0035.U	--	001.3UY 00.67UY	0016.U 003.7U	--	003.3UY 001.2U	0025.U 009.3U	003.3UY 0013.UY	0015.U	0023.U	0013.UY	00.67UY
07S	15E-30E01	M 05-23-66	5000	0019.U	--	001.3UY 00.67UY	002.4U 004.8U	--	003.3UY 001.3UY	0030.U 0013.U	003.3UY 0013.UY	0028.U	0034.U	0013.UY	00.67UY
08S	09E-21A03	M 05-27-66	5050	--	00.00M	--	--	--	--	--	--	--	--	--	--
08S	08E-21A03	M 05-27-66	5000	0027.U	--	001.3UY 00.67UY	00.67UY 004.3U	--	003.3UY 001.3UY	003.3UY 000.6U	003.3UY 0013.UY	003.3UY	0010.U	0013.UY	00.67UY
08S	09E-11H01	M 05-24-66	5000	0019.U	--	001.3UY 0021.U	00.67UY 003.1U	--	003.3UY 001.3UY	003.3UY 000.9U	003.3UY 0013.UY	003.3UY	0027.U	0013.UY	00.67UY
08S	14E-02D01	M 05-23-66	5000	0019.U	--	001.3UY 00.67UY	00.67UY 009.7U	--	003.3UY 001.3UY	003.3UY 0018.U	003.3UY 0013.UY	003.3UY	0023.U	0013.UY	00.67UY
09S	09E-21F01	M 05-25-66	5000	0025.U	--	003.3UY 001.9U	00.67UY 002.7U	--	003.3UY 001.1U	003.3UY 004.3U	0017.U	0011.U	0030.U	0013.UY	00.67UY
09S	16E-17B01	M 06-01-66	5000	0066.U	--	00.57UY 00.29UY	00.29UY 003.7U	001.4UY	001.4UY 00.57UY	001.4UY 0013.U	001.4MY 005.7UY	001.4UY	0044.U	005.7UY	00.29UY
09S	17E-27C01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
09S	18E-18E01	M 04-20-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
09S	18E-26E01	M 03-11-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
09S	18E-29R01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
10S	13E-05J01	M 03-09-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
10S	13E-10A01	M 05-27-66	5000	0057.U	--	00.57UY 00.29UY	00.29UY 003.1U	--	001.4UY 00.57UY	001.4UY 0033.U	001.4UY 005.7UY	001.4UY	0015.U	005.7UY	00.29UY
10S	13E-10J01	M 05-27-66	5000	0103.U	--	00.57UY 002.8U	00.29UY 001.5U	--	001.4UY 001.3U	001.4UY 0028.U	001.4UY 005.7UY	010.0U	0042.U	005.7UY	00.29UY

TABLE E-3

TRACE MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DATE	LAR	AL LI	AS MN	BF MO	BI NI	HR PB	CD TI	CO V	CH ZN	CU	FE	GA	GE
105/13E-10401	M	05-27-66	5000	0063.0U --	-- 001.4UY	00.570Y 00.290Y	00.290Y 001.4UY	-- 001.4UY	001.4UY 00.570Y	001.4UY 009.1U	001.4UY 005.7UY	001.4UY 003.3UY	003%.U 0030.0U	005.7UY	00.290Y
105/13E-15401	M	05-24-66	5000	0064.0U --	-- 003.3UY	001.30Y 00.670Y	00.670Y 003.3UY	-- 003.3UY	003.3UY 001.3UY	003.3UY 0035.0U	003.3UY 0013.0Y	003.3UY 0030.0U	0030.0U	0013.0Y	00.670Y
105/13E-15C01	M	03-09-66	5000	0017.0U --	-- 001.4UY	00.570Y 00.290Y	00.290Y 002.9U	-- 001.4UY	001.4UY 00.570Y	001.4UY 002.7U	001.4UY 005.7UY	001.4UY 002.7U	001%.U 005.7UY	005.7UY	00.290Y
105/13E-16401	M	03-09-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.00M --	-- --	-- --
105/13E-23401	M	05-27-66	5000	0057.0U --	-- 0146.0U	00.570Y 00.290Y	00.290Y 003.7U	-- 001.4UY	001.4UY 00.570Y	001.4UY 0060.0U	001.4UY 005.7UY	001.4UY 005.7UY	0055.0U	005.7UY	00.290Y
105/14E-03401	M	03-09-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.01M --	-- --	-- --
105/14E-31401	M	05-31-66	5000	001.4UY --	-- 0084.0U	00.570Y 00.290Y	00.290Y 003.1U	-- 001.4UY	001.4UY 00.570Y	001.4UY 00.290Y	001.4UY 0024.0M	001.4UY 005.7UY	0009.0U	005.7UY	00.290Y
105/16E-21J01	M	05-16-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.00M --	-- --	-- --
105/17E-05C01	M	06-20-66	5050	00.00M --	-- 00.01M	-- --	-- --	-- 00.00M	-- --	-- --	-- 00.00M	00.01M	00.01M	-- --	-- --
105/18E-25P01	M	03-11-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.12M --	-- --	-- --
115/14E-17P02	M	03-09-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.00M --	-- --	-- --
115/14E-21N02	M	03-09-66	5000	0029.0U --	-- 001.4UY	00.570Y 006.9U	00.290Y 002.2U	-- 001.4UY	001.4UY 00.570Y	001.4UY 008.9U	001.4UY 005.7UY	0080.0U	0014.0U	005.7UY	00.290Y
115/16E-24C02	M	05-14-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.00M --	-- --	-- --
115/16E-27P02	M	05-31-66	5000	0064.0U --	-- 001.4UY	00.570Y 00.290Y	00.290Y 003.1U	-- 001.4UY	001.4UY 00.570Y	001.4UY 0033.0U	001.4UY 005.7UY	001.4UY 005.7UY	0093.0U	005.7UY	00.290Y
115/16E-29K01	M	03-10-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.01M --	-- --	-- --
115/16E-34K02	M	03-07-66	5000	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	00.00M --	-- --	-- --

TABLE E-3
TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAR	AL LI	AS MN	BF MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU	FE	GA	GE
115/18E-09G01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
115/19E-07G01	M 03-11-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
115/20E-19P01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
115/20E-23M01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
115/20E-29R01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
115/20E-31P01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
125/14E-21M01	M 04-04-66	5000	--	--	--	--	--	--	--	--	--	00.28M	--	--
125/14E-27M01	M 03-07-66	5000	--	--	--	--	--	--	--	--	--	00.04M	--	--
125/14E-28E01	M 06-14-66	5802	--	00.00M	--	--	--	--	--	--	--	00.01M	--	--
125/14E-28E01	M 09-29-66	5060	--	--	--	--	--	--	--	--	--	00.01MY	--	--
125/14E-28E02	M 06-14-66	5802	--	00.15M	--	--	--	--	--	--	--	00.02M	--	--
125/14E-28E02	M 09-29-66	5060	--	000.0M	--	--	--	--	--	--	--	00.01MY	--	--
125/14E-34J01	M 07-26-66	5050	--	00.21M	--	--	--	--	--	--	--	--	--	--
125/14E-34J03	M 07-26-66	5050	--	00.09M	--	--	--	--	--	--	--	--	--	--
125/14E-35L01	M 07-26-66	5050	--	00.14M	--	--	--	--	--	--	--	--	--	--
125/14E-35M02	M 08-02-66	5050	--	00.02M	--	--	--	--	--	--	--	--	--	--
125/14E-35M02	M 08-02-66	5050	--	11.00M	--	--	--	--	--	--	--	006.8M	--	--
125/14E-35M02	M 08-02-66	5050	--	005.5M	--	--	--	--	--	--	--	0015.6M	--	--

TABLE E-3

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAR	AL LI	AS MN	BE MO	BI NI	HH PB	CD TI	CO V	CR ZN	CU	FE	GA	GE
125/14E-35M03	M 08-02-66	5050	--	--	--	--	--	--	--	--	--	0.07.3M	--	--
			001.6M	--	--	--	--	--	--	--	--	--	--	--
125/14E-35M03	M 08-02-66	5050	--	--	--	--	--	--	--	--	--	0.03.4M	--	--
			00.97M	--	--	--	--	--	--	--	--	--	--	--
125/14E-35M04	M 07-22-66	5050	--	--	--	--	--	--	--	--	--	--	--	--
			00.02M	--	--	--	--	--	--	--	--	--	--	--
125/14E-35N01	M 07-26-66	5050	--	--	--	--	--	--	--	--	--	--	--	--
			00.114M	--	--	--	--	--	--	--	--	--	--	--
125/15E-11H01	M 03-10-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
125/17E-10F01	M 05-10-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
125/17E-23P01	M 02-24-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
125/18E-26K01	M 03-07-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
125/19E-13A01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
125/20E-30F01	M 03-01-66	5000	--	--	--	--	--	--	--	--	--	00.09M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
135/14E-01L01	M 03-07-66	5000	--	--	--	--	--	--	--	--	--	00.00M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
135/15E-01N01	M 03-29-66	5000	006.9U	--	00.57UY	00.29UY	--	001.4UY	001.4UY	004.3U	0020.0U	002.6U	005.7UY	00.29UY
			--	001.4UY	005.1U	000.9U	001.4UY	00.57UY	008.6U	0028.0U	--	--	--	--
135/16E-01A02	M 03-07-66	5000	--	--	--	--	--	--	--	--	--	00.03M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
135/16E-14J01	M 03-07-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
135/17E-08L01	M 03-11-66	5000	--	--	--	--	--	--	--	--	--	00.01M	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
145/16E-03P01	M 06-01-66	5000	001.4UY	--	00.57UY	00.29UY	--	001.4UY	001.4UY	001.4UY	001.4UY	0241.0	005.7UY	00.29UY
			--	0057.0U	00.29UY	009.1U	001.4UY	00.57UY	00.29UY	005.7UY	--	--	--	--
145/22E-23M01	M 09-12-66	5060	--	0.003MY	--	--	--	--	--	--	--	00.04MY	--	--
			--	00.05MY	--	--	--	--	--	--	--	--	--	--

TABLE B-3

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAR	AL LI	AS MN	BE MO	HI NI	BR PB	CD TI	CO V	CR ZN	CU	FE	GA	GE
155/17E-24J01	M 12-17-65	5050	--	--	--	--	0090.M	--	--	--	--	--	--	--
			000.2M	--	--	--	--	--	--	--	--	--	--	--
155/17E-24K01	M 12-17-65	5050	--	--	--	--	0001.M	--	--	--	--	--	--	--
			000.0M	--	--	--	--	--	--	--	--	--	--	--
155/18E-19E01	M 12-17-65	5050	--	--	--	--	0001.M	--	--	--	--	--	--	--
			000.0M	--	--	--	--	--	--	--	--	--	--	--
155/18E-19E01	M 03-29-66	5000	0066.U	--	00.57UY	00.29UY	--	001.4UY	001.4UY	001.4UY	001.4UY	0189.U	005.7UY	00.29UY
			--	0074.U	00.29UY	004.9U	001.4UY	00.57UY	0029.UY	005.7UY	--	--	--	--
165/14E-08001	M 09-13-66	5060	--	0.003M	--	--	--	--	--	--	--	00.01MY	--	--
			--	00.054Y	--	--	--	--	--	--	--	--	--	--
205/16E-31001	M 06-02-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
225/17E-15M02	M 06-17-66	5050	00.00M	00.01M	--	--	00.00U	--	--	00.00M	--	00.08M	--	--
			--	00.02M	--	--	--	--	--	--	--	--	--	--
235/23E-14E01	M 05-24-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/23E-23M01	M 05-24-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--
			00.03M	--	--	--	--	--	--	--	--	--	--	--
235/24E-13C03	M 05-24-66	5050	--	00.03M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-14R01	M 05-24-66	5050	--	00.02M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-22A01	M 07-06-66	5050	--	00.06M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-24H01	M 05-24-66	5050	--	00.02M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-27H01	M 05-24-66	5050	--	00.04M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-27J01	M 05-24-66	5050	00.01M	00.02M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--
235/24E-29J01	M 05-24-66	5050	--	00.07M	--	--	--	--	--	--	--	--	--	--
			00.01M	--	--	--	--	--	--	--	--	--	--	--
235/24E-32P01	M 05-24-66	5050	--	00.12M	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-3
TRACE MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DIST	DATE	LAB	AL	AS	BF	BI	BR	PH	CD	CO	CH	CU	FE	GA	GE
					LI	MI	MO	NI	PH		TI	V	ZN				
23S/24F-33401	N	05-24-66	5050		--	00.06M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-33J01	N	05-24-66	5050		--	00.11M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-33K01	N	05-24-66	5050		--	00.14M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-34J01	N	05-24-66	5050		--	00.10M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-35J01	N	05-24-66	5050		--	00.02M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-36A02	N	05-24-66	5050		--	00.01M	--	--	--	--	--	--	--	--	--	--	--
23S/24E-36A01	N	05-24-66	5050		--	00.00M	--	--	--	--	--	--	--	--	--	--	--
23S/25E-14L01	N	05-24-66	5050		--	00.02M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-03A01	N	05-24-66	5050		--	00.06M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-04E01	N	07-14-66	5050		--	00.07M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-04E02	N	07-14-66	5050		--	00.21M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-04F02	N	07-22-66	5050		--	00.17M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-04N01	N	05-24-66	5050		--	00.11M	--	--	--	--	--	--	--	--	--	--	--
24S/24E-04P02	N	04-23-66	5050	00.01M	--	00.76M	--	--	--	--	--	--	--	00.05M	00.03M	--	--
24S/24E-04P02	N	05-24-66	5050	--	--	00.03M	--	00.00M	--	--	--	--	00.06M	--	--	--	--
24S/24E-04A01	N	05-24-66	5050	--	--	00.05M	--	--	--	--	--	--	--	--	--	--	--

TABLE E-3
TRACE MINERAL ANALYSES OF GROUND WATER

STATE	WELL NO.	DATE	LAR	AL LI	AS MN	BF MO	HI NI	HR PH	CU TI	CO V	CH ZN	CU	FE	GA	GE
	24S/24E-04201	M	07-04-66	5.050	00.01M	--	--	--	--	--	--	--	--	--	--
	24S/24E-09F01	M	04-24-66	5.050	001.1M	--	--	--	--	--	--	--	--	--	--
	24S/24E-09F02	M	05-24-66	5.050	00.01M	--	00.00M	--	--	--	00.01M	00.06M	003.2M	--	--
	24S/24E-09F02	M	05-24-66	5.050	00.03M	--	--	--	--	--	--	--	--	--	--
	24S/24E-15N01	M	04-24-66	5.050	00.03M	--	--	--	--	--	--	--	--	--	--
	24S/24E-15N01	M	04-24-66	5.050	00.07M	--	--	--	--	--	--	--	--	--	--
	24S/24E-15N01	M	05-24-66	5.050	00.26M	--	--	--	--	--	--	--	--	--	--
	24S/24E-17J01	M	07-14-66	5.050	00.10M	--	--	--	--	--	--	--	--	--	--
	24S/24E-20401	M	05-24-66	5.050	00.08M	--	--	--	--	--	--	--	--	--	--
	24S/24E-20R01	M	05-24-66	5.050	00.02M	--	--	--	--	--	--	--	--	--	--
	24S/24E-25F01	M	05-24-66	5.050	00.03M	--	--	--	--	--	--	--	--	--	--
	24S/24E-27A01	M	05-24-66	5.050	00.06M	--	--	--	--	--	--	--	--	--	--
	24S/24E-28P01	M	05-24-66	5.050	00.05M	--	--	--	--	--	--	--	--	--	--
	24S/24E-28R03	M	05-24-66	5.050	00.06M	--	--	--	--	--	--	--	--	--	--
	24S/24E-30P01	M	05-24-66	5.050	00.04M	--	--	--	--	--	--	--	--	--	--
	24S/24E-30P01	M	05-24-66	5.050	00.00M	--	--	--	--	--	--	--	--	--	--
	24S/24E-17P01	M	05-24-66	5.050	00.01M	--	--	--	--	--	--	--	--	--	--
	24S/24E-17P02	M	05-24-66	5.050	00.00M	--	--	--	--	--	--	--	--	--	--
	24S/24E-20401	M	05-24-66	5.050	00.01M	--	--	--	--	--	--	--	--	--	--

TABLE E-3

TRACE METHAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL	AS	BF	BI	HI	PH	CD	CO	C4	CU	FE	GA	GE
		LT	MN	MO	NI	NI	PH	TI	V	Zn					
P24S/P25E-30001	M 05-24-66	5050	--	00.01M	--	--	--	--	--	--	--	--	--	--	--
P25S/19E-03001	M 04-06-66	5000	005.7U	--	01.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	005.7U	0013.UY	00.67UY
P25S/19E-03002	M 04-06-66	5000	006.0U	--	001.3UY	006.7UY	--	004.3UY	003.3UY	003.3UY	003.3UY	003.3UY	005.7U	0013.UY	00.67UY
P25S/19E-03003	M 04-06-66	5000	006.7U	--	007.3U	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	0011.0	0013.UY	00.67UY
P25S/19E-05J01	M 04-06-66	5000	004.9U	--	001.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	0013.UY	00.67UY
P25S/19E-06C01	M 04-06-66	5000	003.3UY	--	0010.0	002.1U	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	004.7U	0013.UY	00.67UY
P25S/19E-06D01	M 04-06-66	5000	006.7U	--	001.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	004.5U	003.6U	0013.UY	00.67UY
P25S/19E-06W01	M 04-06-66	5000	007.3U	--	003.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	007.3U	0013.UY	00.67UY	
P25S/19E-06N01	M 04-06-66	5000	007.3U	--	003.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	0013.UY	00.67UY
P25S/19E-06P01	M 04-06-66	5000	007.3U	--	0022.0	002.0U	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	008.7U	0013.UY	00.67UY
P25S/19E-07M01	M 04-06-66	5000	006.3U	--	001.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	0027.0	0013.UY	00.67UY
P25S/19E-07P01	M 04-06-66	5000	006.0U	--	003.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	0013.0	0013.UY	00.67UY
P25S/19E-20Q02	M 04-07-66	5000	006.3U	--	003.3UY	006.7UY	--	003.3UY	003.3UY	003.3UY	003.3UY	003.3UY	004.0U	0013.UY	00.67UY
P25S/19E-23H01	M 04-07-66	5000	0017.4U	--	003.3UY	006.7UY	--	0015.0	003.3UY	003.3UY	0027.0	003.3UY	0010.0	0013.UY	00.67UY
P25S/23E-12H02	M 05-24-66	5050	--	00.04M	--	--	--	--	--	--	--	--	--	--	--
31S/24E-13J01	M 06-24-66	5000	0025.0U	--	006.3U	006.7UY	--	003.3UY	006.4U	003.3UY	003.3UY	0013.0	0046.0	0013.UY	00.67UY
31S/24E-13J04	M 06-24-66	5000	0023.4U	--	016.7U	007.3U	003.3UY	001.3U	0021.0	0021.0	0033.0				
			--	003.3UY	001.3UY	006.7UY	--	001.3UY	003.3UY	003.3UY	003.3UY	003.3UY	004.3U	0013.UY	00.67UY

TABLE E-3

TPACF MINERAL ANALYSES OF GROUND WATER

STAFF	*FLL	NO.	DATE	TIME	AL LI	AS Fe	HF MO	HJ NI	HH PA	CH TI	CU V	CH ZN	CU	FF	GA	GE
31S/24E-13605	06-27-66	5000	0051.11	--	001.31Y	00.670Y	--	003.31Y	003.31Y	003.31Y	003.31Y	003.31Y	003.31Y	0109.2U	0013.0Y	00.670Y
31S/24E-13606	06-27-66	5000	0035.21	--	003.31Y	0078.21	004.51	003.31Y	001.31Y	006.71U	001.31Y	001.31Y	003.31Y	0031.1U	0013.0Y	00.670Y
31S/24E-24602	06-27-66	5000	0543.21	--	001.31Y	00.670Y	--	003.31Y	001.31Y	0021.1U	001.31Y	001.31Y	003.31Y	0027.1U	0013.0Y	00.670Y
31S/24E-24603	06-27-66	5000	0049.21	--	001.31Y	00.670Y	--	003.31Y	001.31Y	006.21U	001.31Y	001.31Y	003.31Y	0096.1U	0013.0Y	00.670Y
31S/24E-24604	06-27-66	5000	0025.21	--	003.31Y	0053.21	003.71U	003.31Y	001.31Y	002.51U	001.31Y	001.31Y	003.31Y	0029.1U	0013.0Y	00.670Y
31S/24E-24605	06-27-66	5000	0043.21	--	001.31Y	00.670Y	--	003.31Y	001.31Y	004.61U	001.31Y	001.31Y	003.31Y	0044.1U	0013.0Y	00.670Y
31S/24E-24606	06-27-66	5000	0020.21	--	001.31Y	00.670Y	--	003.31Y	001.31Y	001.21U	001.31Y	001.31Y	003.31Y	0049.1U	0013.0Y	00.670Y
31S/24E-36003	05-27-66	5050	00.00M	--	00.00M	--	--	00.00M	--	--	--	00.00M	00.16M	--	--	--
31S/24E-36004	05-27-66	5050	00.00M	--	00.00M	--	--	00.00M	--	--	--	00.00M	00.15M	--	--	--
31S/24E-36005	05-27-66	5050	00.01M	--	00.01M	--	--	00.00M	--	--	--	00.00M	00.16M	--	--	--
31S/24E-36006	05-27-66	5050	00.01M	--	00.02M	--	--	00.00M	--	--	--	00.02M	00.16M	--	--	--
31S/24E-36007	05-27-66	5050	00.01M	--	00.05M	--	--	00.00M	--	--	--	00.07M	00.18M	--	--	--
31S/24E-36008	05-27-66	5050	00.00M	--	00.02M	--	--	00.00M	--	--	--	00.00M	00.17M	--	--	--
31S/24E-36009	07-13-66	5000	0025.2M	--	001.31Y	00.670Y	--	003.31Y	001.31Y	007.01U	003.31Y	003.31Y	003.31Y	0043.1U	0013.0Y	00.670Y
31S/24E-36010	07-13-66	5050	0004.2M	--	0111.11	004.71	003.31Y	001.31Y	001.31Y	001.91U	001.31Y	001.31Y	003.31Y	0043.1U	0013.0Y	00.670Y





2.37

DUCT



- LEGEND**
- DISTRICT OR AREA BOUNDARIES
 - 5-22 00 NUMBERS INDICATE CODE CLASSIFICATION
 - - - FOOTHILL LINE
 - - - REDRICK LINE
 - - - CALIFORNIA AGREEMENT AND FURNOUTS
 - WELLS MEASURED MONTHLY
 - WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY
 - ◻ DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +80 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1963 TO SPRING 1966
 - ◻ DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -80 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1963 TO SPRING 1966

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1966

GROUND WATER LEVEL CHANGES
 UNCONFINED AND SEMICONFINED AQUIFERS
 AND
 SELECTED OBSERVATION WELLS

SCALE 1" = 100 MILES



LEGEND

— DISTRICT OR AREA BOUNDARIES

3-ET-DO NUMBERS INDICATE CODE CLASSIFICATION

FOOTHILL LINE

BEDROCK LINE

CALIFORNIA ADRIODUCT AND TUNOUTS

AREAS OF COOPERATIVE GROUND WATER LEVEL MONITORING PROGRAMS

LOS BANOS SOIL CONSERVATION DISTRICT

FRESNO SOIL CONSERVATION DISTRICT

KINGS COUNTY WATER DISTRICT

KERN COUNTY

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1965 TO SPRING 1966

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -1.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1965 TO SPRING 1966

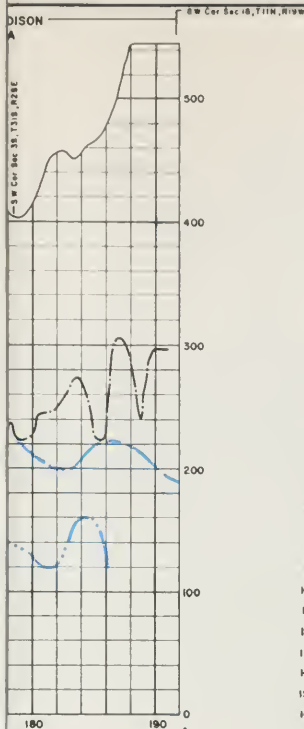
STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1966

GROUND WATER LEVEL CHANGES
 IN THE CONFINED AND SEMICONFINED AQUIFERS
 COOPERATIVE PROGRAM AREAS

SCALE OF 1:50,000





HISTORIC
GROUND WATER AREAS

- 1 MAOERA
- 2 FRESNO
- 3 CONSOLIDATED
- 4 CENTERVILLE BOTTOMS
- 5 ALTA
- 6 IVANHOE
- 7 OUTSIDE IVANHOE
- 8 MILL CREEK
- 9 TULARE
- 10 ELK BAYOU
- 11 LIMOSAY-EXETER
- 12 TULE RIVER
- 13 LOWER DEER CREEK
- 14 MIDDLE DEER CREEK
- 15 DELANO - EARLIMART
- 16 Mc FARLAND - SHAFTER
- 17 ROSEDALE
- 18 ARVIN-EDISON

Note: See Figure C-1 for Hydrographs of 18 Historic Ground Water Areas.



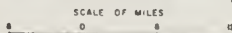
LEGEND

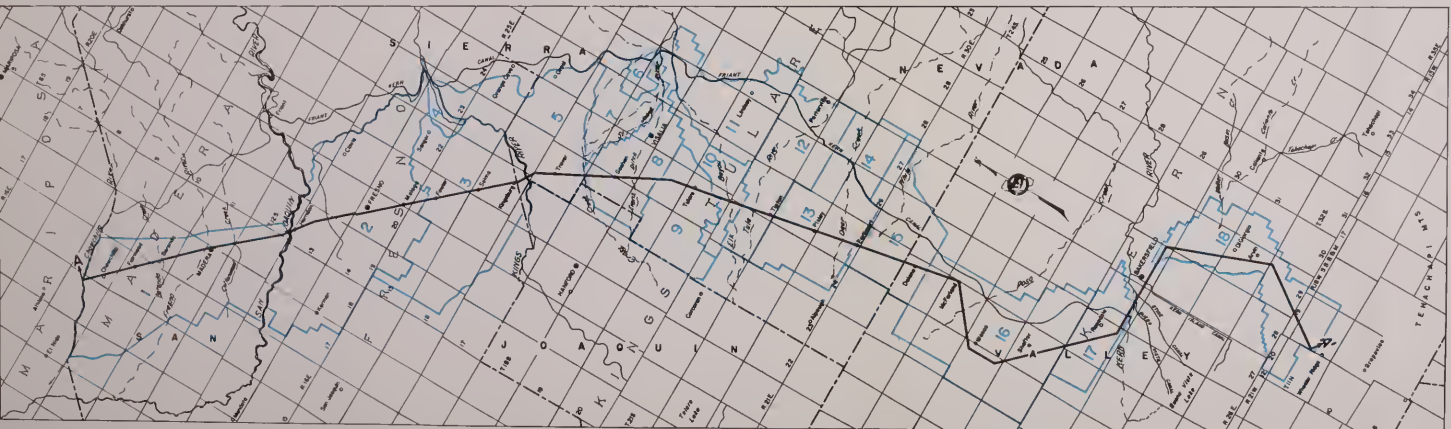
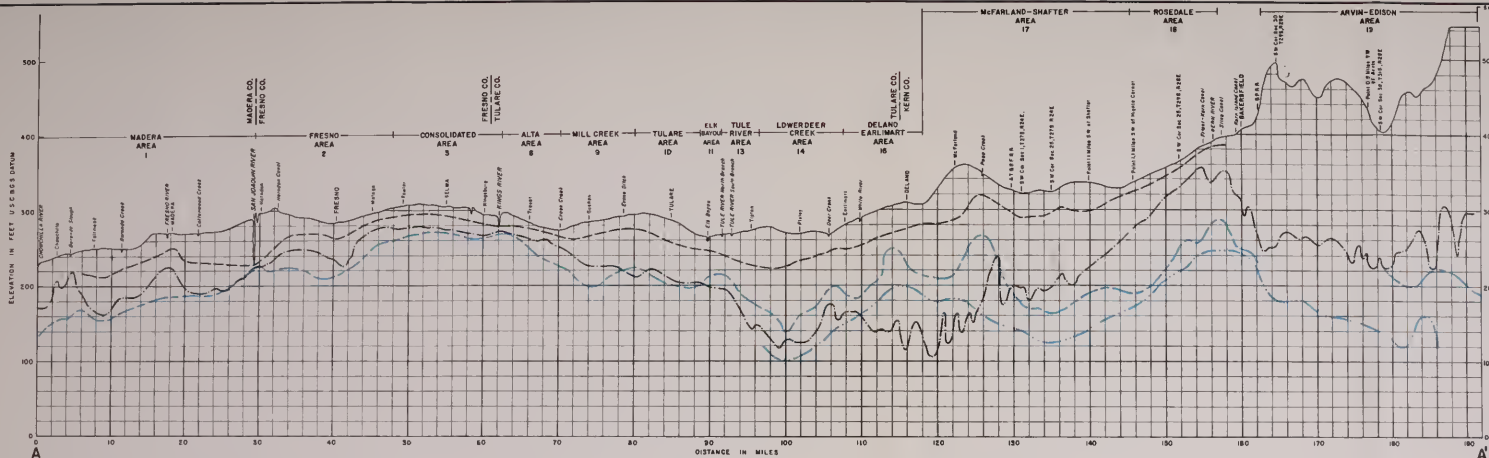
- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1966, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1966, PRESSURE SURFACE
- GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1966

MAP OF 18 HISTORIC GROUND WATER AREAS
IN SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1966





- HISTORIC GROUND WATER AREAS**
- 1 MADERA
 - 2 FRESNO
 - 3 CONSOLIDATED
 - 4 CENTERVILLE BOTTOMS
 - 5 ALTA
 - 6 IRVING
 - 7 OUTSIDE IRVING
 - 8 MILL CREEK
 - 9 TULARE
 - 10 ELK RIVER
 - 11 LINDSAY-CREYER
 - 12 TULE RIVER
 - 13 LOWER DEER CREEK
 - 14 MIDDLE DEER CREEK
 - 15 DELANO-EARLIMART
 - 16 MCFARLAND-SHAFTER
 - 17 ROSEDALE
 - 18 ARVIN-EDISON
- Note: See Figure C-1 for description of 18 Historic Ground Water Areas

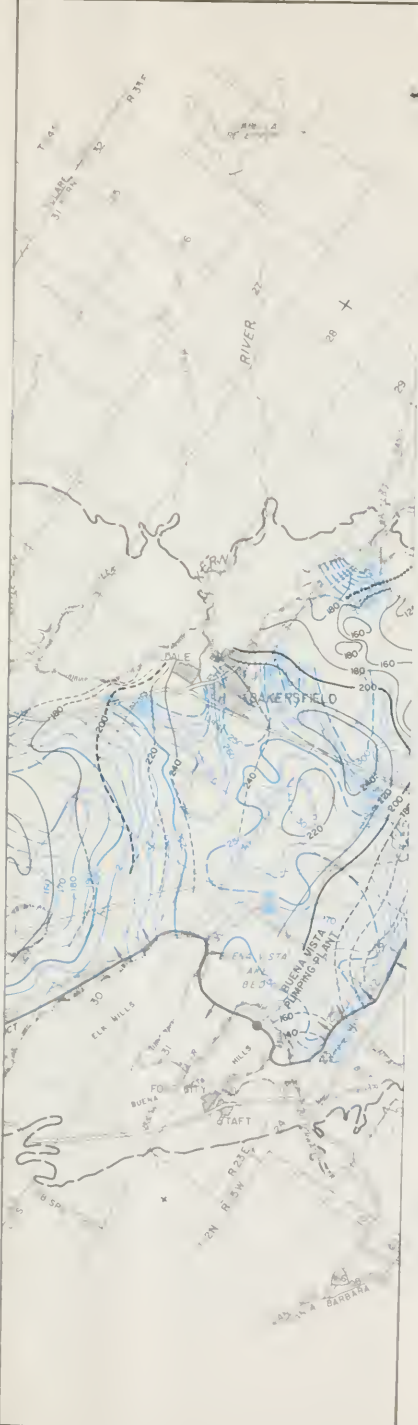
- LEGEND**
- GROUND WATER AREA BOUNDARIES
 - GROUND WATER LEVEL FALL 1921
 - GROUND WATER LEVEL FALL 1951
 - GROUND WATER LEVEL SPRING 1966, UNCONFINED AQUIFER
 - GROUND WATER LEVEL SPRING 1966, PRESSURE SURFACE
 - GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
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 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1966

**MAP OF 18 HISTORIC GROUND WATER AREAS
 IN SAN JOAQUIN VALLEY
 AND
 PROFILES ALONG SECTION A-A' SHOWING
 GROUND WATER LEVELS IN 1921, 1951 & 1966**

SCALE OF MILES







EXPLANATION
 WELLS
 1. Artesian wells
 2. Non-artesian wells
 3. Wells with unknown status
 4. Wells with unknown status of water
 5. Wells with unknown status of water
 6. Wells with unknown status of water
 7. Wells with unknown status of water
 8. Wells with unknown status of water
 9. Wells with unknown status of water
 10. Wells with unknown status of water

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1966
**LINES OF EQUAL ELEVATION
 OF WATER IN WELLS**
 SAN JOAQUIN VALLEY
 SPRING 1966

SCALE 1:50,000





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